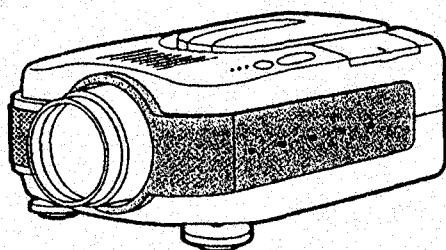


SHARP SERVICE MANUAL SERVICE-ANLEITUNG

S92J3XV310P//



SECAM/PAL/NTSC SYSTEM LCD PROJECTOR LCD PROJEKTOR

MODEL
MODELL **XV-310P**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only **parts** identical to those specified should be used

Im Interesse der Benutzer-Sicherheit (in einigen Länder durch Sicherheitsvorschriften gefordert) sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.

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SHARP CORPORATION

SPECIFICATIONS

System :
Projection image size (diagonal):

LCD panels:

No. of pixels:

Lens:

Contrast ratio:

Horizontal resolution:

Operating temperature:

Storage temperature:

Power Source:

Audio output:

Speaker:

Power consumption:

Dimensions (W x H x D):

Weight:

Accessories:

PAL/SECAM/NTSC3.58/NTSC4.43 SYSTEM
76 cm (30 inch) at a distance of approx. 1 m
152 cm (60 inch) at a distance of approx. 2 m
9.1 cm (3.6") Twin-TFT Active Matrix panel
RGB Trio 100,386 pixels (234(V) x 429(H))
F2.8 f = 123 mm

100:1
PAL: More than 320 lines, NTSC: More than 350 lines
5°C ~ 40°C
- 20°C ~ 55°C

AC 220 ~ 240V, 50/60Hz

3W (Monaural)

8 cm (Round Speaker)

175w

215 mm x 149 mm x 385 mm

4.3 kg (9.51 lbs)

Lens Cover: 1 pc.

Air Filter: 1 pc. (Installed)

21-pin RCA conversion adapter: 1 pc. (In some areas, this adapter is not supplied with the unit.)

Specifications are subject to change without notice.

TECHNISCHE DATEN

System :

Projektionsbildgröße (diagonal):

LCD-Projektionsplatten:

Anzahl der Punkte:

Objektiv:

Kontrastverhältnis:

Horizontale Auflösung:

Betriebstemperatur:

Lager-temperatur:

Stromversorgung:

Tonausgangsleistung:

Lautsprecher:

Nennaufnahme:

Abmessungen (B x H x T):

Gewicht:

Zubehör:

PAL/SECAM/NTSC3.58/NTSC4.43-System
76 cm (30Zoll) bei einem Abstand von ca. 1 m
152 cm (60 Zoll) bei einem Abstand von ca. 2 m
9,1 cm (3,6Zoll) Twin-TFT Aktivmatrixplatten
RGB-Trio 100.386 Bildpunkte (234(V) x 429(H))
F2.8 f = 123 mm
100:1
PAL: Mehr als 320 Zeilen, NTSC: mehr als 350 Zeilen
5°C ~ 40°C
- 20°C ~ 55°C

Wechselstrom 220 ~ 240V, 50/60Hz

3W (monaural)

8 cm (Rundlautsprecher)

175w

215 mm x 149 mm x 385 mm

4,3 kg

Objektivkappe 1 Stück

Luftfilter: 1 Stück (installiert)

21-pol. RCA-Konversionsadapter: 1 Stück

(In einigen Gebieten wird der Rca-Konversionsadapter nicht mit der Gerät mitgeliefert.)

Änderungen der technische Daten vorbehalten.

NOTE TO SERVICE PERSONNEL

UV-RADIATION PRECAUTION

The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.

AVOID DIRECT EYE AND SKIN EXPOSURE.

To ensure safety please adhere to the following:

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.
2. Do not operate the lamp outside of the lamp housing.
3. Do not operate for more than 2 hours with the enclosure removed.



UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type **MSFR120S12H** rated 80V/120W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

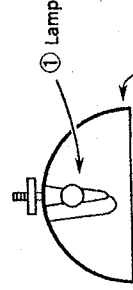
Lamp Replacement

Note:

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.)

Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector

②. [Use original replacement only.]



DANGER! — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

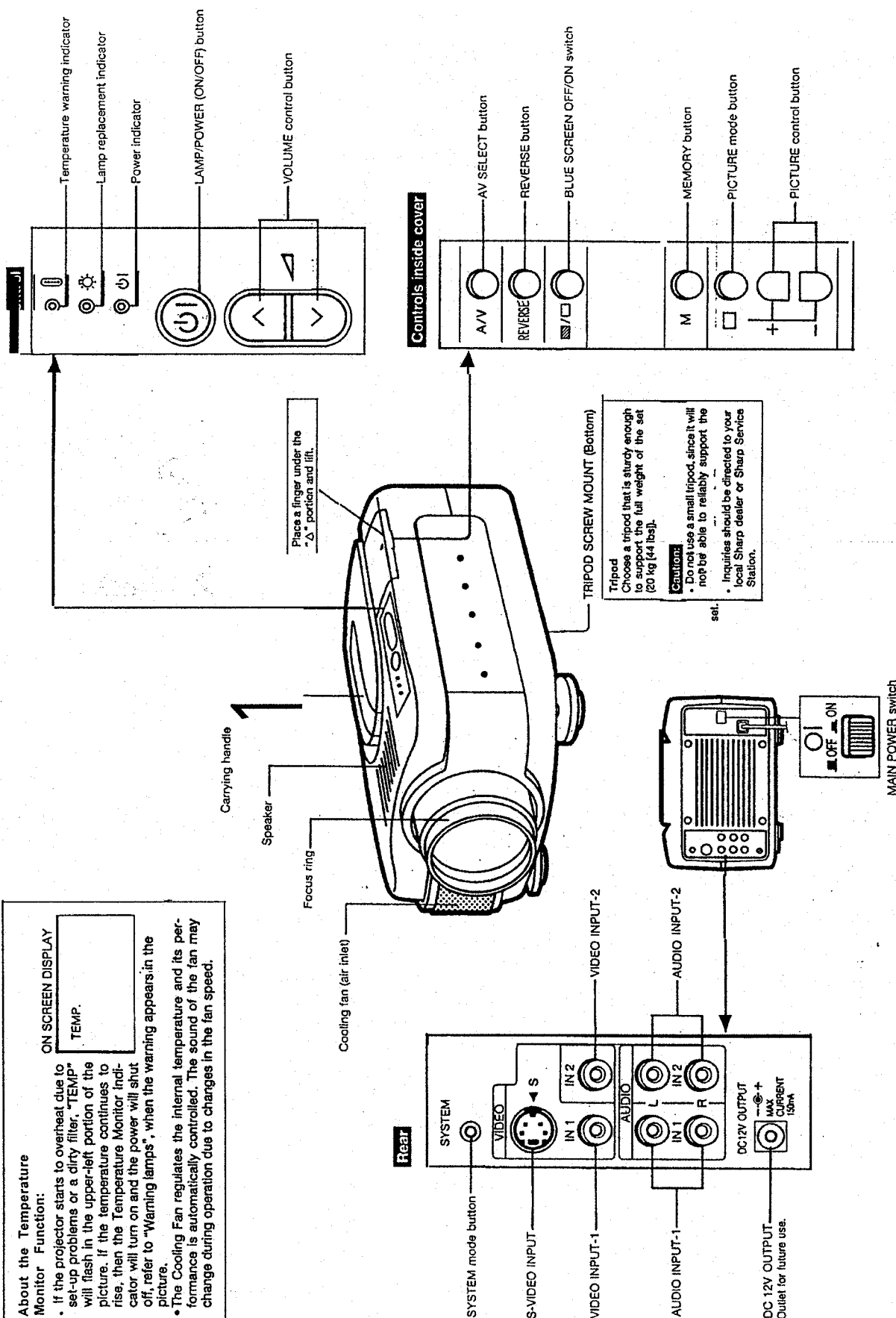
Location of Controls

About the Temperature Monitor Function:

- If the projector starts to overheat due to set-up problems or a dirty filter, "TEMP" will flash in the upper-left portion of the picture. If the temperature continues to rise, then the Temperature Monitor Indicator will turn on and the power will shut off, refer to "Warning lamps", when the warning appears in the picture.
- The Cooling Fan regulates the internal temperature and its performance is automatically controlled. The sound of the fan may change during operation due to changes in the fan speed.

ON SCREEN DISPLAY

TEMP.



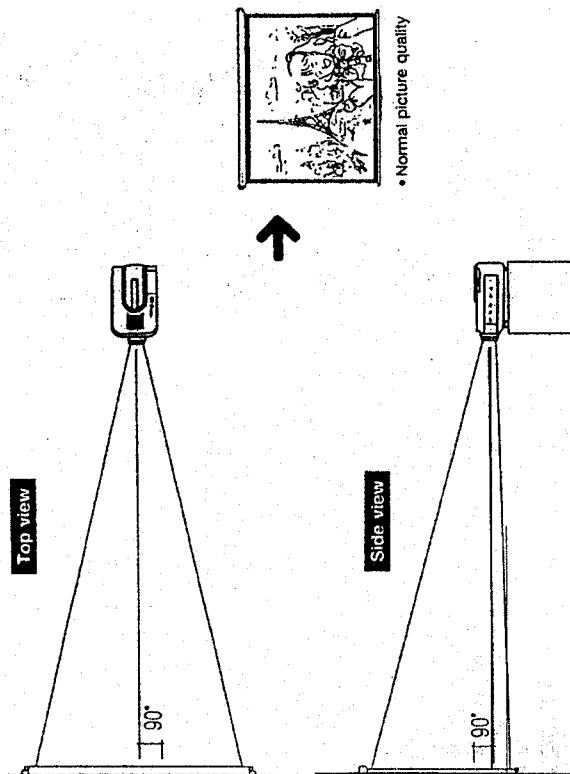
Setting Up the Projector

Installation precautions

- Do not place the projector in excessively humid or dusty locations or in location exposed to soot or cigarette smoke. If the lens, mirror or other optical component become dirty, the picture will blur or darken, making viewing difficult.
 - Do not expose the projector to extreme heat or cold.
- Operating temperature: 5°C~40°C
- Storage temperature: -20°C~55°C

Example of a standard setup

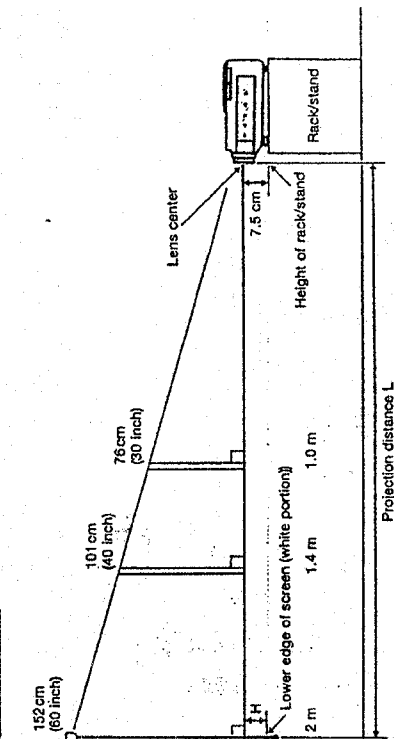
- Position the screen so that it is not in direct sunlight or room light. Light falling directly onto the screen turns the screen white and makes viewing difficult. Close the curtains when using the screen in a bright room.
- Place the projector at a 90° angle to the screen to achieve optimum viewing quality.



Screen size (diagonal)	Projection distance L	Distance from lens center to lower edge of screen (H)
152 cm (60 inch)	2.0 m	23 cm
101 cm (40 inch)	1.4 m	16 cm
76 cm (30 inch)	1.0 m	12 cm

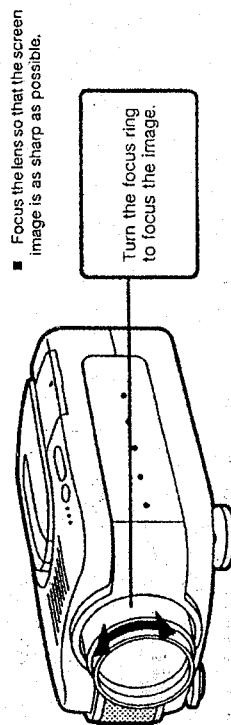
Relation between projection distance and screen size

Height of projector



- After positioning the projector, adjust the focus as shown.

Focusing

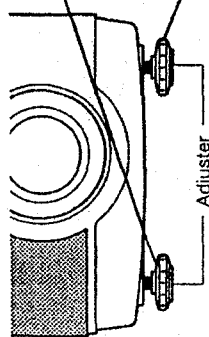


Setting Up the Projector

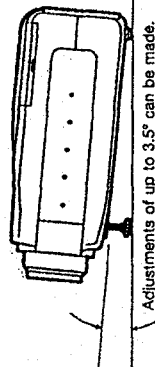
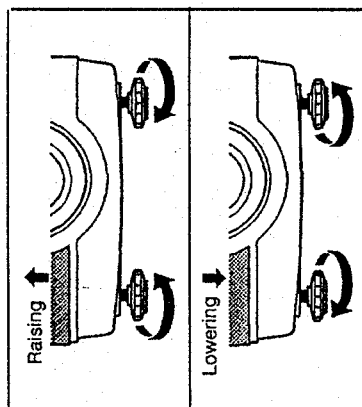
Levelling and height adjustments

- Use the adjuster at the bottom of the projector to adjust the height of the projector.

Front view

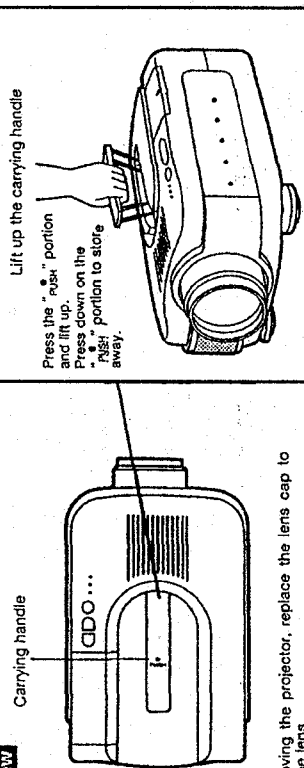


When the height of the projector is adjusted with the adjuster, the image on the screen will look distorted since the projector is not at right angles to the screen.



- Use the carrying handle when moving the projector.

Top view



When moving the projector, replace the lens cap to protect the lens.

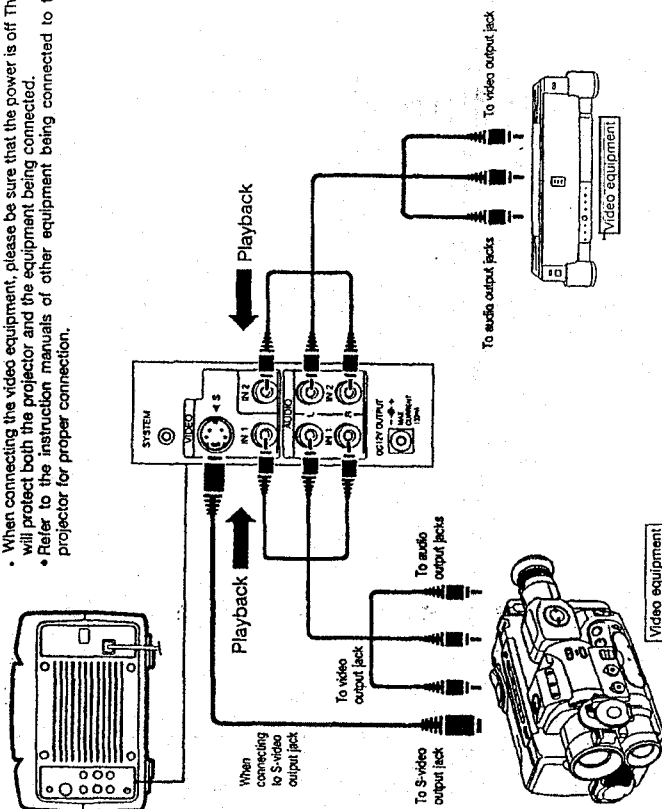
Connecting the Projector

SYSTEM 1

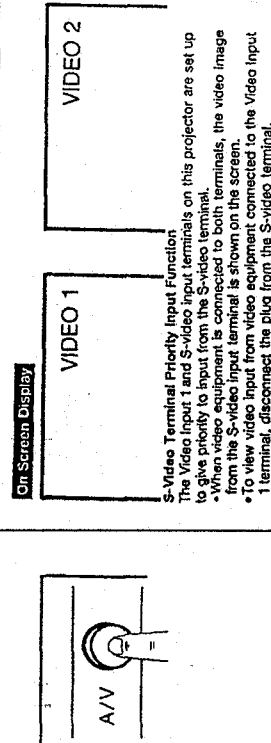
To connect the projector to video equipment for viewing played-back images.

Rear

- Notes:**
- When connecting the video equipment, please be sure that the power is off. This will protect both the projector and the equipment being connected.
 - Refer to the instruction manuals of other equipment being connected to the projector for proper connection.



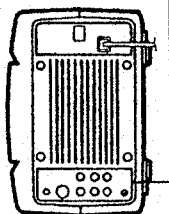
Use the A/V SELECT button to select either VIDEO 1 or VIDEO 2.



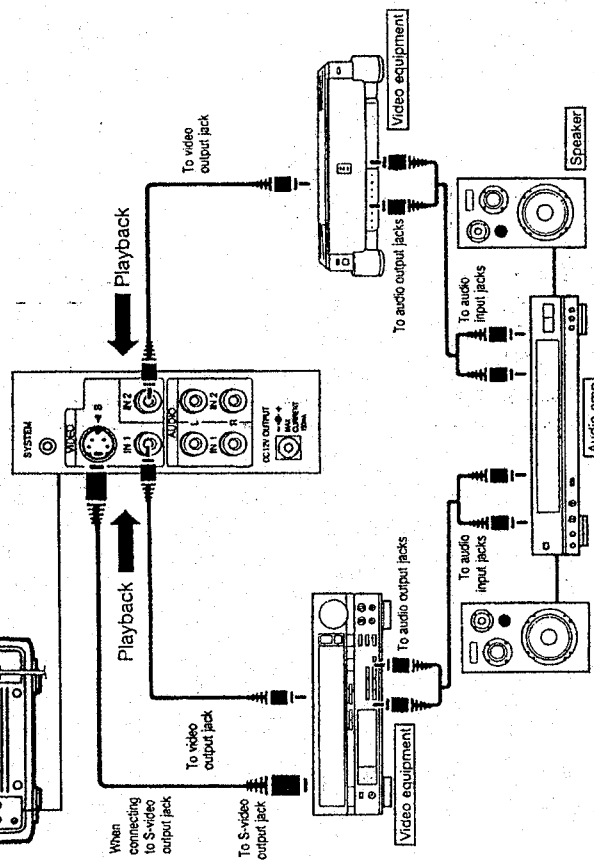
SYSTEM 2

To connect the projector to video and audio equipment for viewing played-back images. (With an audio amplifier connection.)

Rear Terminals



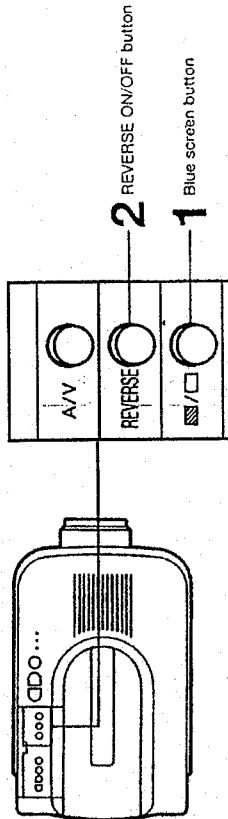
- When connecting equipment with an S-video output, such as an S-VHS VCR, and one or more video decks to an AV amplifier, connect up both the S-VIDEO terminal and the VIDEO-2 JACK on the projector.
- Use the VIDEO SELECT button to select either S-VIDEO INPUT to watch played-back images from equipment connected to the S-VIDEO terminal, or VIDEO INPUT 2 to watch played-back images from equipment connected to the VIDEO-2 terminal.



Other Functions

- When the BLUE SCREEN function is turned ON, the screen will turn blue when there is no video signal input to the projector.
- Press the BLUE SCREEN button once more to turn the BLUE SCREEN function OFF.

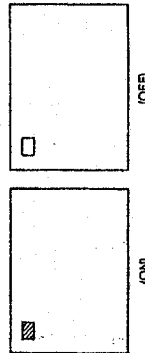
Controls inside cover



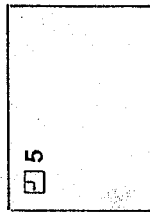
1 Blue screen function

- When the Blue Screen button is set to  (ON/OFF), the following display is shown for a few seconds on your screen.

Screen display



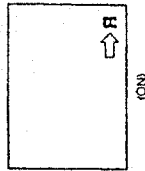
- When the BLUE SCREEN button is set to the  (ON) position, the screen turns blue when no signal or noise is input. (If the Blue Screen function is engaged for over 15 minutes, the AUTO OFF function engages and power is automatically turned off. Five minutes before the power turns off, the remaining time (in minutes) is displayed at one-minute intervals in the top left of the screen.)



2 Reversing the image

- When the REVERSE ON/OFF button is set to REVERSE mode, the following display is shown for a few seconds on your screen.

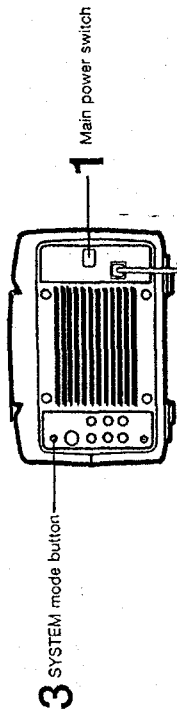
Screen display



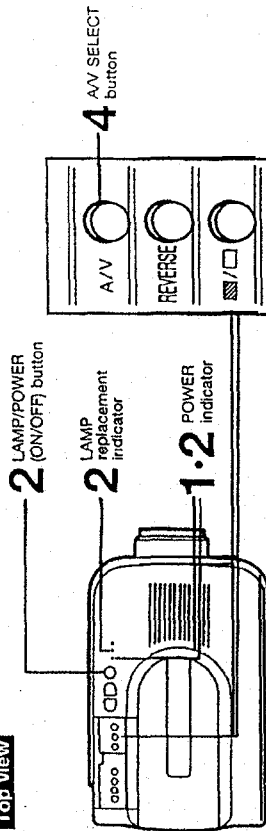
- When a mirror or reverse image is required for an application such as rear projection, the REVERSE image switch can be used. Press the reverse image button. The image on the screen will flip to a mirror image of the input video signal. Press the button again and the image will return to its normal appearance.

Using the Projector

Rear view



Top view



1 Turning on the main power switch

Set the Main Power switch to ON.

When you are using the projector for the first time or when the power indicator lamp is off, set the main power switch to ON (indicator lights red). The power indicator lamp turns off when the main power switch is set to off.

Indicator off:
Main Power switch is set to OFF
Indicator lights red:
Standby status
Indicator lights green:
Projector lamp on

2 Turning on the lamp power

Press LAMP/POWER (ON/OFF) button

Green: Lamp on
Flashing green light: Lamp is being warmed up
Red: Lamp should be replaced
See page "Warning lamps" for details.

The indicator turns green.

3 System change

Press SYSTEM mode button.

When the button is pressed, the select COLOR system is displayed in the top right corner of the screen for about a few seconds.

(PAL setting)
PAL

(SECAM setting)
SECAM

(NTSC4.43 setting)
NTSC4.43

(NTSC3.58 setting)
NTSC3.58

(AUTO mode)
PAL

When receiving PAL signal.

*In Auto mode, "PAL", "SECAM", "NTSC4.43" or "NTSC3.58" is displayed on the screen for about a few seconds when modes are automatically changed.

4 AV Select

Press the AV SELECT button.

AV button on the projector operator panel. The indication is cycled as shown below when the button is pressed.

VIDEO 1 → VIDEO 2

The screen display changes as shown in these figures.

VIDEO 1

VIDEO 2

Notes:

- Even when the power is turned off using the POWER button, the COOLING FAN will continue to operate as long as the projector's internal temperature remains high (about 90 seconds). Do not disconnect the AC power cord plug while the COOLING FAN is operating.
- If the projector is turned on immediately after it has been turned off, it may take a short while before the lamp is turned on. (During this period the Lamp Monitor Indicator flashes green.)

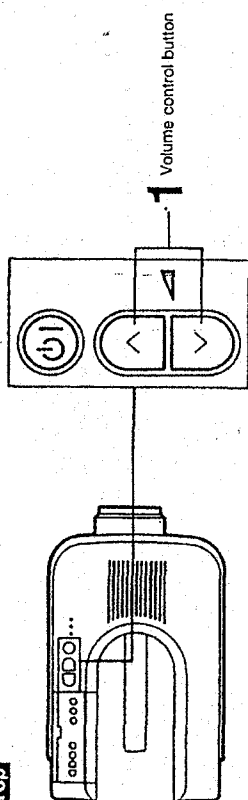
Notes:

- This projector is equipped with three video input systems: S-video, Video-1, and Video-2.
- To choose between these systems, press the AV button to select input from either the VIDEO-1 (S-VIDEO given priority) or the VIDEO-2 terminals.

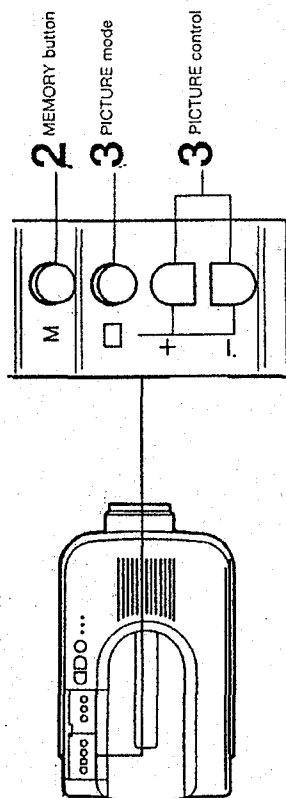
Picture and Volume Control

- This projector's picture is set to standard specifications at the factory. However, you can adjust it to suit your own preferences using the VIDEO ADJUST buttons.
- The positions of the picture settings are committed to memory when set.

Top

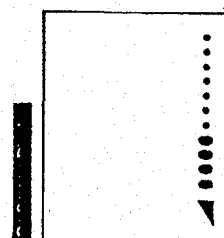
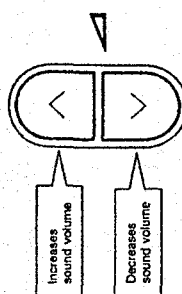


Controls inside cover



1 Adjusting the Volume

Press the Volume control button.



The number of segments (0-16) displayed increase or decrease as the volume is raised or lowered.

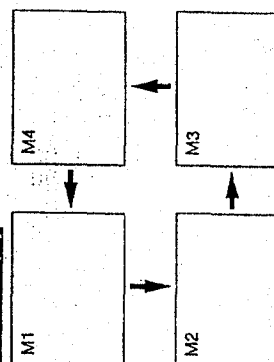
2 Selecting the MEMORY

Press the MEMORY button.



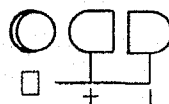
• When the MEMORY button is pressed, the present settings will be displayed on the screen for about a few seconds.

On Screen Display

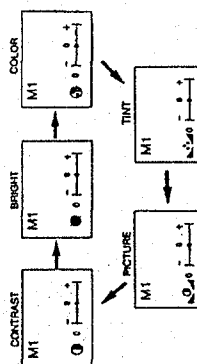


3 Picture adjustments

Use the PICTURE MODE and PICTURE CONTROL buttons to set the picture to suite your preferences.



The picture modes change as shown below when the Picture mode button is pressed.
(M1 shows a memory number.)



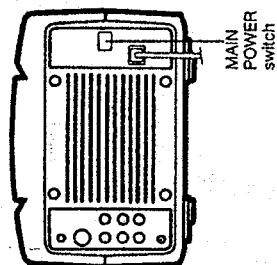
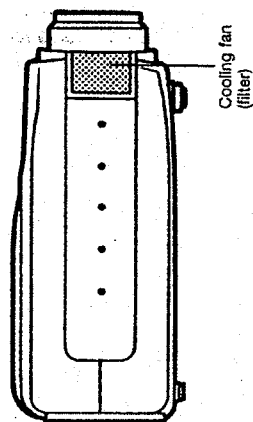
• Select the mode that is to be adjusted and use the PICTURE CONTROL buttons to make the adjustments.
• The modes are displayed on the screen for about a few seconds. The adjustments have to be made while the screen is displayed.

Tint setting can only be adjusted when receiving NTSC signal.

Maintenance

Air filter cleaning

- The air filter should be cleaned about every 100 hours. Clean the filter more often when the projector is used in a dusty location.
- Have your dealer replace the filter when it is no longer possible to clean it.



1 Turning off the main power	Turning off the power with the main power switch. In some areas, the plug may not resemble the one shown in the illustration.
2 Unplugging the power cord	Unplug the power cord.
3 Remove the air filter.	To remove the air filter first grasp the protruding tab and move it in the direction of the arrow. Then, pull the filter straight out, as indicated by the arrow.
4 Remove the filter holder	Pull the filter holder's "Δ"-marked portion in the direction of the arrow to unhook the filter holder.
5 Remove the sponge filter.	Remove the sponge filter by grasping.
6 Clean the air filter.	Clean the dust off the air filter and the sponge filter with a vacuum cleaner. The air filter The sponge filter If the filter is very dirty, wash it with a neutral detergent dissolved in cool or lukewarm water, then leave the filter in the sun to dry.
7 Replace the air filter.	Replace the sponge filter in the air filter as before. Retatch the air filter. Align the ridges on the top and bottom of the air filter with the grooves in the projector body, and slide in.

Before Calling for Service

No picture	• The projector is not plugged into the mains supply. • The MAIN POWER switch is set to off. • The BRIGHT (-) control is set to the minimum position.
Colour is poor or faded	• Check that the COLOUR (+) and (-) controls are properly adjusted.
Picture is blurred	• Adjust the focus • The projection distance is too long or short to allow for proper focus.
An unusual sound is occasionally heard from cabinet	• If picture is normal, the sound is due to cabinet shrinkage caused by temperature changes. This will not effect operation.
Maintenance indicator lights up	• Refer to "Warning lamps."
No sound	• Check if the volume control is turned all the way down • Check to make sure that the wires at the back of the LCD projector are properly connected.

Lamp

- The projector's lamp has a limited operating life.

When the lamp is nearly burned out, the picture and colour quality deteriorate. In this event, have the lamp replaced by qualified service personnel.

Replacing the projector lamp requires special technical expertise and should be performed by your local Sharp dealer or Sharp Service Station.

Warning lamps

- This projector is equipped with warning indicators that go on when an abnormal condition occurs.
- There are two warning indicators in the projector: the temperature warning lamp and lamp replacement indicator.
- If the projector malfunctions, the temperature warning lamp or the lamp replacement indicator will light red and the power is turned off. Perform the following procedures when you have turned off the main power switch.

Warning lamp	Symptom	Potential problems	Countermeasures
Temperature	The temperature inside is too high.	• The air vents are blocked.	• Install the projector in an appropriate location.
		• The air filter is clogged.	• Clean the filter.
		• The cooling fan is defective. • Any of the internal circuits are defective.	• Turn in the projector for service.
Projector lamp	The projector lamp does not light.	• The projector lamp has reached the end of its life. • The projector lamp circuit is defective.	• Turn in the projector for service.

NOTE:

If the temperature warning lamp lights up red and the power cuts off, the projector will enter stand-by mode. After turning off the projector, be sure to wait until the unit's internal temperature has sufficiently lowered before turning it on again (at least 5 min.).

REMOVING THE MAJOR PARTS

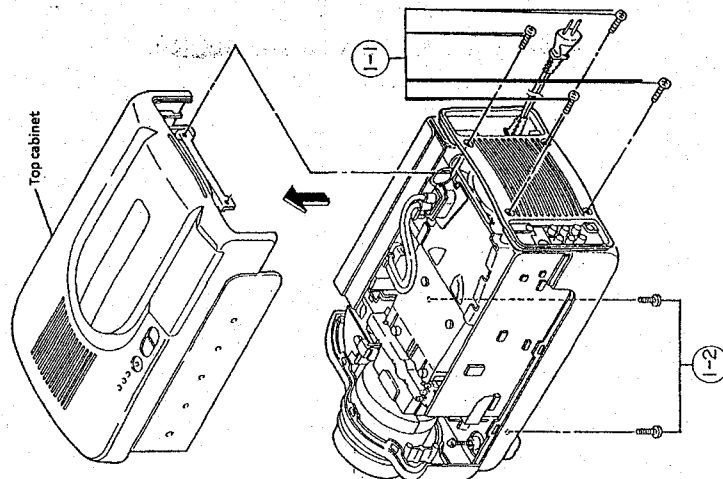
1. Removing the rear panel

- 1-1. Unscrew the six screws off the rear panel and take out the rear panel.
1-2. Unscrew the two screws off the bottom of the unit.

Precautions on Handling the Cabinet

When removing and attaching the top cabinet, take the following precautions. The cable that connects the speakers on the inside of the top cabinet with the main PWB is short. Do not pull up the top cabinet too far, because otherwise the cable connector may be damaged. Slowly lift the top cabinet a little, disconnect the speaker cable from the "Sp" connector on the main PWB, and take out the top cabinet completely. To place the top cabinet back in position, first reconnect the speaker cable to the "Sp" connector on the main PWB, and then fit the top cabinet to the bottom cabinet. In this fitting, keep the flexible cable, which runs between the LCD panel and the main PWB, inside the top cabinet. This cable might be caught between the top and bottom cabinets.

1



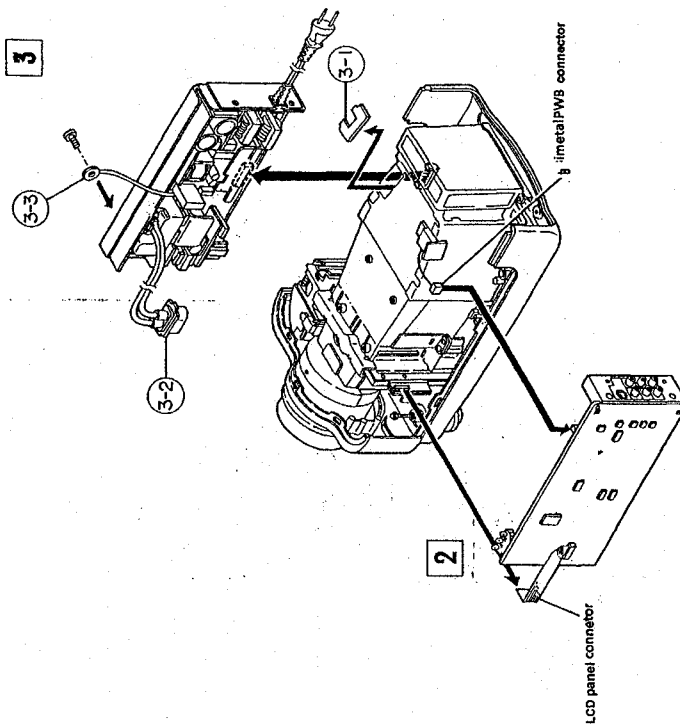
12

2. Removing the PWB

Disconnect the LCD panel connector and the bimetal PWB connector.

3. Removing the lamp ballast and power PWB unit

- 3-1. Untwist the lamp guide catch and take out the light shielding plate.
3-2. Untwist the lamp guide bracket catch and detach the bracket.
3-3. Unscrew the screw to disconnect the grounding lug terminal. Now take out the lamp ballast and the power unit.



13

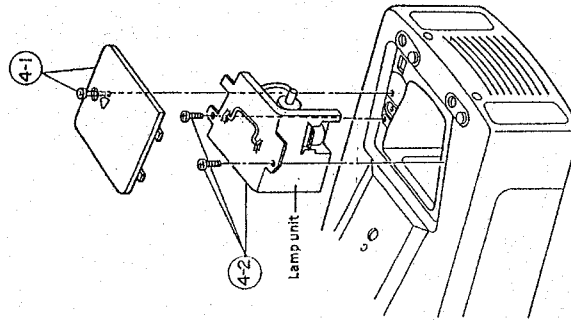
4. Removing the lamp unit

- 4-1. Unscrew the screw to detach the bottom cover.
4-2. Unscrew the two screws off the lamp unit. Take the lamp unit out.

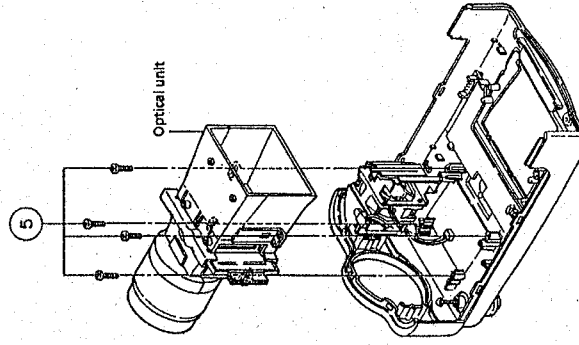
5. Removing the optical unit

Unscrew the four screws off the optical unit and take the optical unit out.

4



5



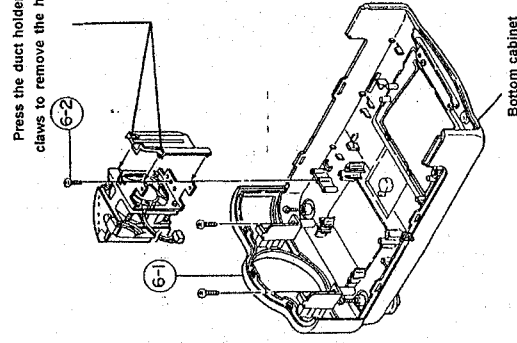
6. Removing the fan

- 6-1. Unscrew the two screws to take out the front cover of the unit.
6-2. Keep the front claws pressed and release the duct holder. Then unscrew the screw to take out the fan unit.

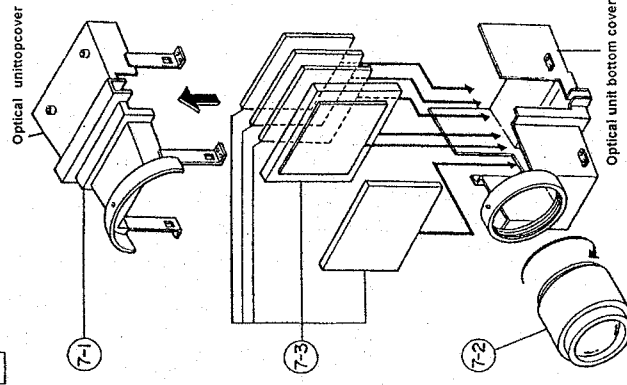
7. Disassembling and reassembling the optical unit

- 7-1. Pull up the optical unit top cover.
7-2. Turn the projection lens clockwise and remove the lens.
7-3. Pull up the following optical unit parts: Fresnel lens, light-in deflection plate, LCD panel, light-out deflection plate, condenser lens and UV cut filter.

6

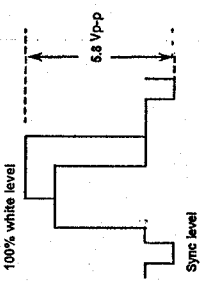
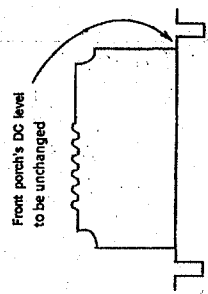


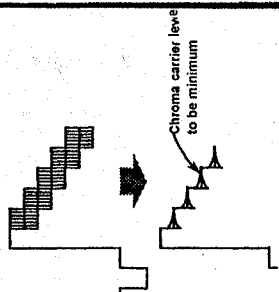
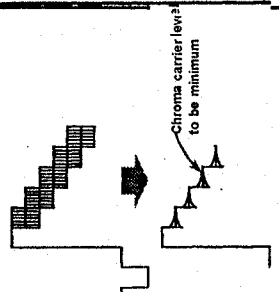
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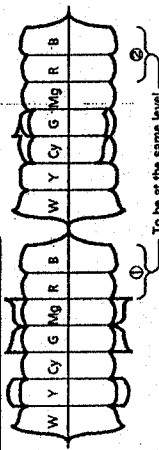
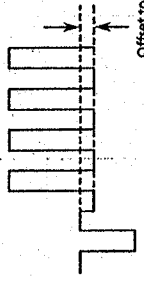
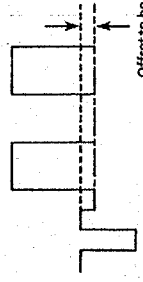
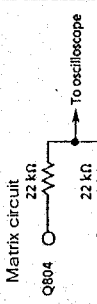
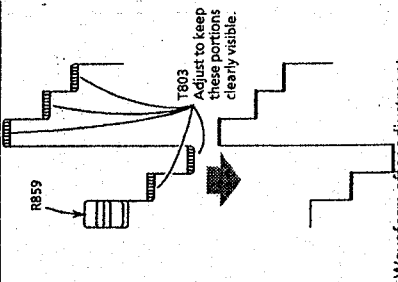


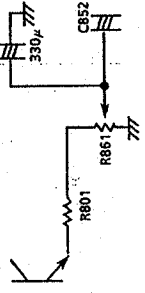
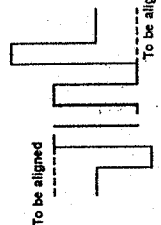
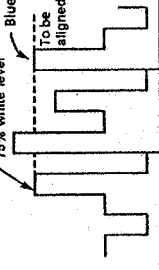
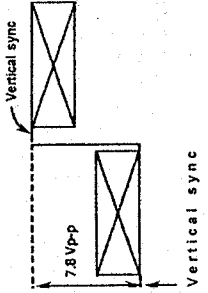
ELECTRICAL ADJUSTMENT

Note: Unless otherwise specified, all the adjustments should be made in the standard conditions.

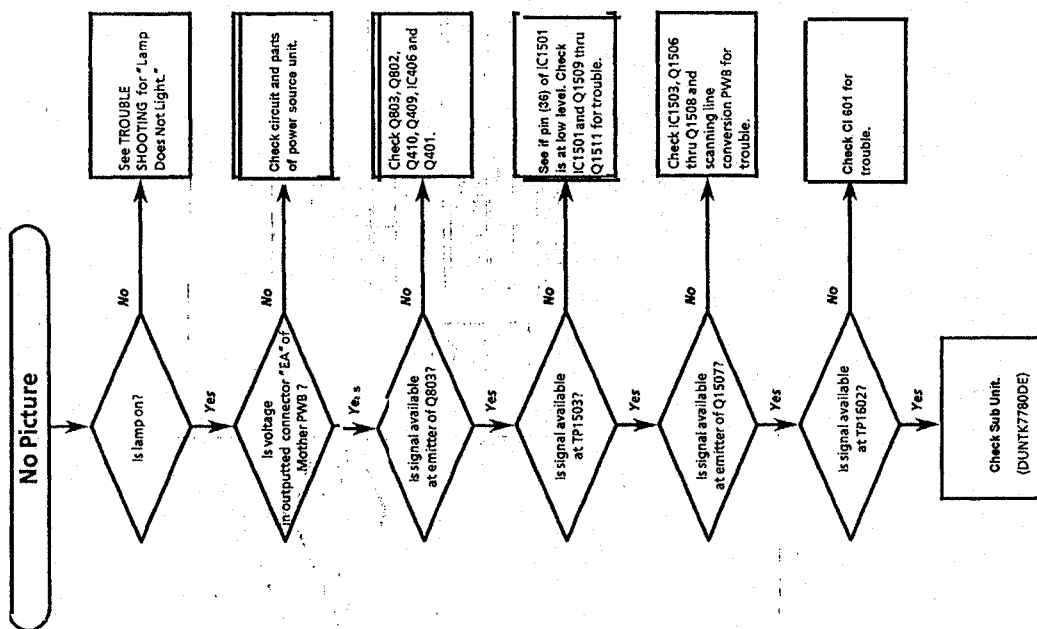
Adjustment position	Adjustment condition	Adjustment method
1 AGC (Automatic Gain Control): RI 546	- Receive the NTSC monoscope pattern signal. - Connect the voltmeter between TP1501 and GND.	Adjust RI 546 so that the voltmeter should read $3.0 \pm 0.05V$.
2 Y level: R861	- Receive the NTSC colour bar signal. - Apply 5 V to TP1604 to turn off the gamma correction. - Connect the oscilloscope between TP1602 and GND. - Turn on the gamma correction. - If the signal is out of sync or the white portion is degraded, turn RI 604 to restore the original state.	Adjust R861 so that the difference between the sync level and the 100% white level be $5.8 \pm 0.1 V_{p-p}$. 
3 Sub-brightness: R2139	- Receive the NTSC monoscope pattern signal. - Connect the oscilloscope between TP1602 (G output) and GND. - Apply 5 V to TP2001 via a 6.8-kohm resistor.	Keep TP1604 under 5 V load and then under no load. Repeat this several times. Adjust R2139 so that the DC level at the front porch be unchanged whether TP1604 is under load or not. 
4 Sub-bias: R1604 (Green),	- Receive the NTSC colour bar signal. - Connect the oscilloscope between TP1602 and GND.	Turn RI 604 so that the peak of the sync signal be at $-5.5 \pm 0.5 V$.
5 Sub-bias: R1602 (Red)	- Receive the NTSC colour bar signal. - Connect the oscilloscope between TP1601 and GND.	Turn RI 602 so that the DC level at TP1601 be the same as that at TP1602. DC level at TP1602 $\pm 0.1 V$

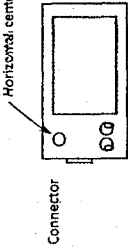
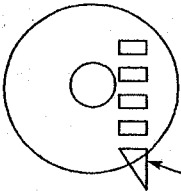
Adjustment position	Adjustment condition	Adjustment method
6 Sub-bias: RI 608 (Blue)	- Receive the NTSC colour bar signal. - Connect the oscilloscope between TP1603 and GND.	Turn RI 608 so that the DC level at TP1603 be the same as that at TP1602. DC level at TP1602 $\pm 0.1 V$
7 White balance: RI 629 (B output)	- Receive the NTSC monoscope pattern signal. - Connect the oscilloscope's CH1 to TP1602. - Connect the oscilloscope's CH2 to TP1603 (B output) and invert the waveform.	Observe the CH1 and CH2 waveforms in the ADD mode. Adjust RI 629 so that the amplitude be minimum.
8 White balance: RI 623 (R output)	- Receive the NTSC monoscope pattern signal. - Connect the oscilloscope's CH1 to TP1602. - Connect the oscilloscope's CH2 to TP1601 (R output) and invert the waveform.	Observe the CH1 and CH2 waveforms in the ADD mode. Adjust RI 623 so that the amplitude be minimum.
9 Chroma trap: T402	- Receive the PAL colour bar signal. - Connect the oscilloscope between TP401 and GND.	Turn T402 so that the chroma carrier level be minimum. 
10 Chroma trap: T401	- Receive the SECAM colour bar signal. - Connect the oscilloscope between TP401 and GND.	Turn T401 so that the chroma carrier level be minimum. 

Adjustment position	Adjustment condition	Adjustment method
11 SECAM level filter: T805	- Receive the SECAM colour bar signal. - Connect the oscilloscope between TP806 and GND.  To be at the same level	Turn T805 so that the R/B portions (1) and (2) in the two channels be the same in amplitude. See the figure below.
12 SECAM B-Y: T802	- Receive the SECAM colour bar signal. - Connect the oscilloscope between TP803 and GND. - Turn T802 so that the offset be zero. See the figure at right.	 Offset to be zero
13 SECAM R-Y: T801	- Receive the SECAM colour bar signal. - Connect the oscilloscope between TP804 and GND. - Turn T801 so that the offset be zero. See the figure at right.	 Offset to be zero
14 SECAM ID: T804	- Receive the SECAM colour bar signal. - Connect the oscilloscope between TP805 and GND.	Turn T804 obtain the highest DC level.
15 PAL 1H delay phase: T803 PAL 1H delay amplifier: R859	- Receive the PAL colour bar (E12 channel) signal. - Connect 2.2-kohm resistors to the emitters of Q804 and Q805. Now hook up the oscilloscope between the middle point and GND. See the figure below.  Matrix circuit Q804 22 kΩ Q805 22 kΩ To oscilloscope	 Adjust to keep these portions clearly visible. Waveform after adjustment

Adjustment position	Adjustment condition	Adjustment method
16 NTSC tint: R860	- Receive the NTSC colour bar signal. - Turn the user colour and contrast controls by 10 steps toward the red tint (-10 points). Connect a 330-μF capacitor, as shown below, to drop the Y level. 	To be aligned  To be aligned
17 Colour saturation: R858 (su b-colour)	- Receive the NTSC colour bar signal. - Connect the oscilloscope between TP803 and GND. - Set the colour and contrast controls to +7 points.	75% white level Blue To be aligned 
18 Sub-bias (RGB): R1434	- Receive the monoscope pattern signal. - Connect the oscilloscope between TP1405 (G output) and GND.	Turn R1434 so that the vertical sync level difference between two black portions at TP1405 be 7.8 ± 0.1 VP-P.  7.8 VP-P Vertical sync
19 Common bias: R520	- Make this adjustment in a dark room using the following tools and instruments. - Receive the NTSC monoscope pattern signal.	Adjust R520 so that the tone contrast be maximum.
20 Sub-bias (red): R1602 Sub-bias (blue): R1608	Receive the NTSC monoscope pattern signal.	Turn R1602 and R1608 until the best white balance can be achieved.

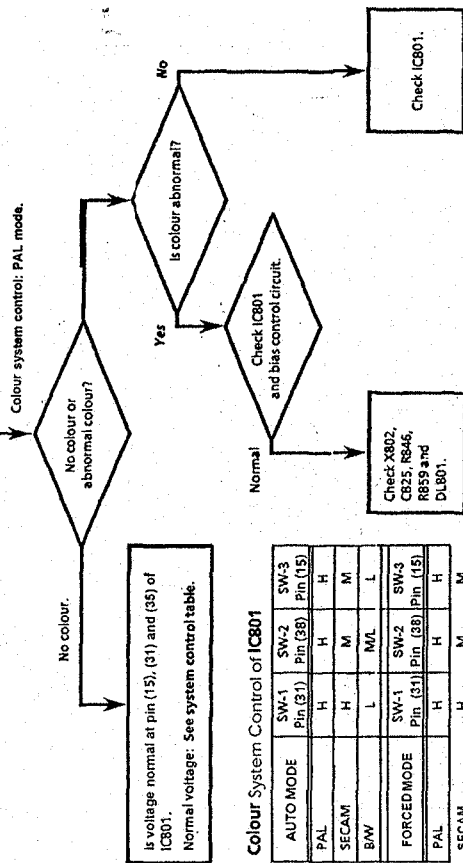
TROUBLE SHOOTING TABLE



Adjustment position	Adjustment condition	Adjustment method
21 NTSC horizontal center	Receive the NTSC monoscope pattern signal. 	Turn the control on the panel (see the figure at left) to make the image at the center of the screen.
22 Scanning line conversion phase: R119	Receive the PAL monoscope pattern signal.	Adjust R119 so that the image should come at the center of the screen.
23 Oscillation frequency: L1001	- Ground pin (70) of IC1001. - Connect the frequency counter between TP1001 and GND.	Turn L1001 so that the oscillation frequency be 15.625 ± 0.01 kHz.
24 Oscillation frequency: L1002	- Ground pin (43) of IC1001. - Connect the frequency counter between TP1002 and GND.	Adjust L1002 so that the oscillation frequency be 15.625 ± 0.01 kHz.
25 Sign position: T2001	- Display the sign on the screen. - Adjust T2001 to position the sign on the screen. - Receive the NTSC monoscope pattern signal. - Press the VOL button. 	
26 Audio output: R2062	Connect the voltmeter between the center terminal of R2062 and GND.	Turn up the VOL button from minimum to the fourth step (where the second sign becomes reddish). Adjust R2062 so that the voltmeter should read 0.8 ± 0.02 V.

TRouble SHOOTING TABLE (Continued)

No Specific Colour-(PAL)



Colour System Control of IC801

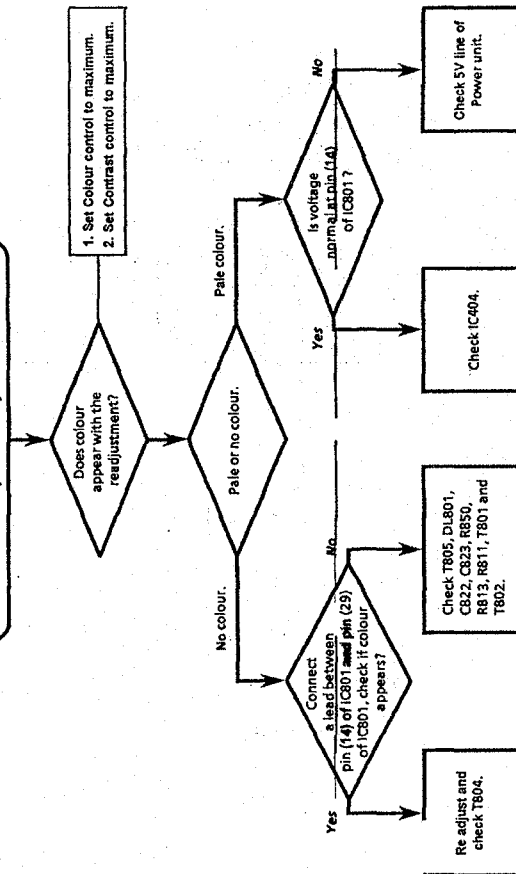
AUTO MODE	SW-1 Pin (31)	SW-2 Pin (38)	SW-3 Pin (15)
PAL	H	H	H
SECAM	H	M	M
B/W	L	M/L	L

FORCED MODE	SW-1 Pin (31)	SW-2 Pin (38)	SW-3 Pin (15)
PAL	H	H	H
SECAM	H	M	M

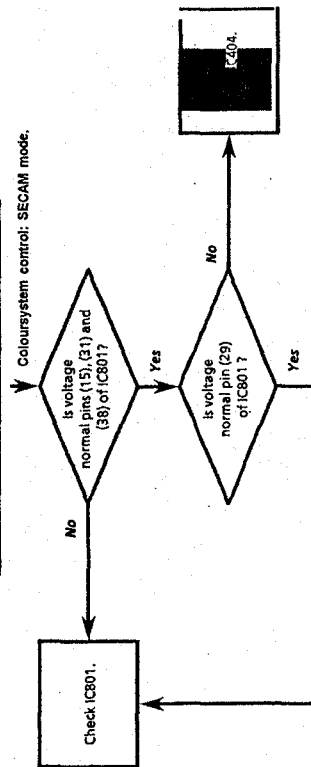
H: Over 3V M: 1.5V L: ov

TRouble SHOOTING TABLE (Continued)

No Colour or Pale Colour (SECAM)



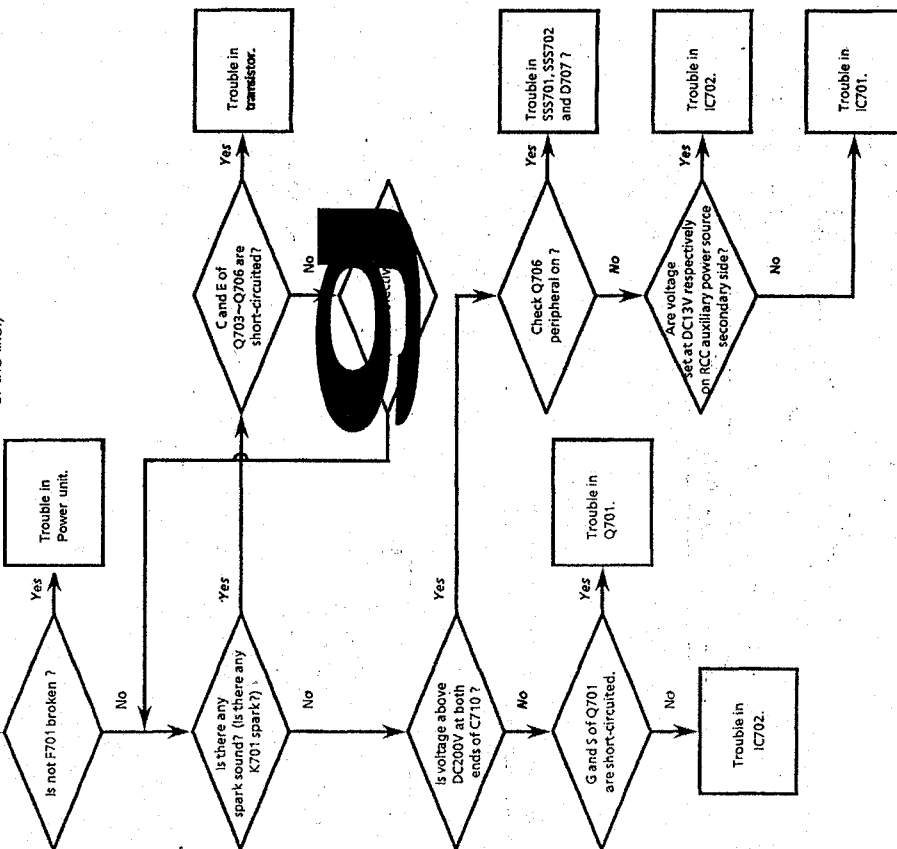
-- (No Specific Colour (SECAM))



TROUBLE SHOOTING TABLE (Continued)

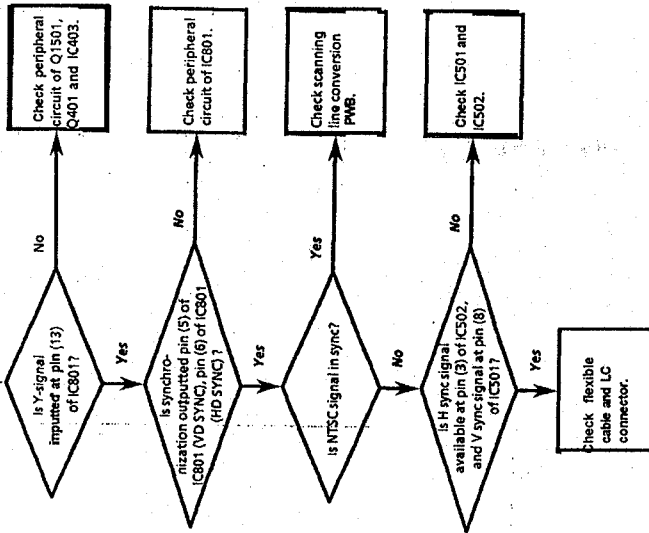
Lamp Does Not Light

Take care in power-on with lamp removed because stabilizer generates high voltage in start-up. (Electric shock, damage of equipment or the like.)



TROUBLE SHOOTING TABLE (Continued)

No Synchronization



HINWEISE FÜR DEN WARTUNGSTECHNIKER

VORSICHTSMASSNAHMEN GEGEN UV-STRAHLUNG

Die Lichtquelle (Metallhalogenidlampe) im LCD-Projektor erzeugt geringe Anteile von UV-Strahlung.

DIREKTEN AUGEN- UND HAUTKONTAKT VERMEIDEN.

Folgende Sicherheitshinweise sind zu befolgen:



1. Bei der Wartung des Geräts muß bei eingeschalteter Lampe eine Sonnenschutzbrille getragen werden. Der obere Deckel ist bei der Wartung zu entfernen.



2. Die Lampe darf nicht außerhalb des Lampengehäuses verwendet werden.



3. Bei entferntem oberem Deckel nicht länger als 2 Stunden betreiben.

Vorsichtsmaßnahmen bezüglich UV-Strahlung und Mitteldrucklampen

1. Vor dem Auswechseln der Lampe unbedingt den Netzstecker ziehen.
2. Das Gerät vor dem Durchführen von Wartungsarbeiten eine Stunde abkühlen lassen.
3. Nur gegen eine Lampe der gleichen Sorte auswechseln. Sorte **MSFR120S12H, 80 V / 120 W**.
4. Da die Lampe eine geringe UV-Strahlung aufweist, sollte direkter Blickkontakt vermieden werden.
5. Die Mitteldrucklampe weist ein Explosionsrisiko auf. Die nachstehenden Einbauanweisungen beachten und die Lampe vorsichtig handhaben.

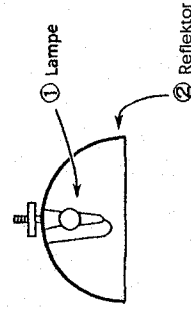
■ Auswechseln der Lampe

Hinweis:

Da die Lampe während des Betriebs extrem heiß wird, sollte das Auswechseln erst eine Stunde nach dem Ausschalten stattfinden (abkühlzeit).

Beim Anbringen der neuen Lampe die Birne unbedingt nicht berühren. Den Reflektor ② der Lampe beim Auswechseln halten.

[Nur das Original-Ersatzteil verwenden.]



GEFAHR! — Niemals die Spannungsversorgung ohne Lampe einschalten, um elektrische Schläge und Schäden des Gerätes zu vermeiden, da der Stabilisator beim Einschalten hohe Spannungen erzeugt.

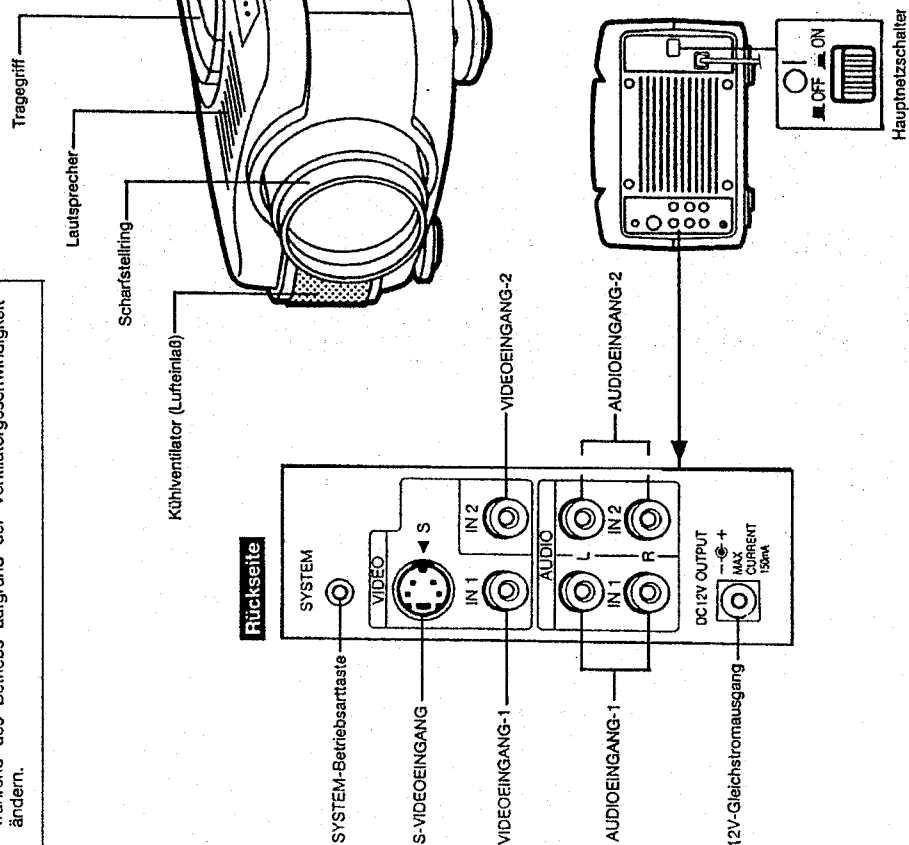
Hinweis zur Temperatur-

Anzeigefunktion:

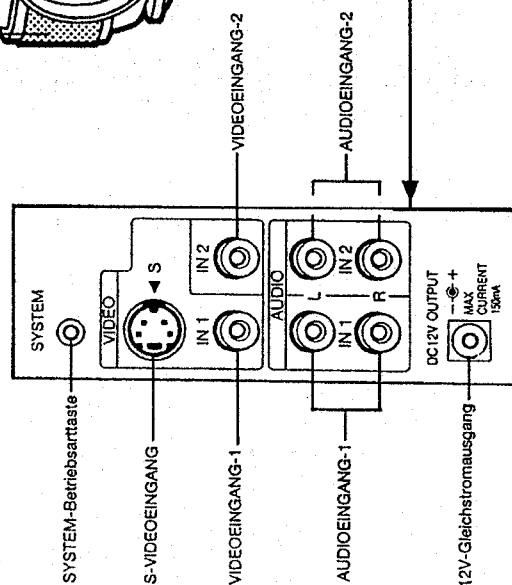
ANZEIGE AUF DER BILDWAND

- Wenn der Projektor aufgrund eines Einstellungsproblems oder eines verschmutzten Filters überhitzt, blinkt "TEMP" im Oberfeld des Bildes. Wenn die Temperatur weiterhin ansteigt, wird die Temperatur-Überwachungsanzeige eingeschaltet und das Gerät schaltet sich aus. Siehe "Warnlampen", wenn die Warnung im Bild erscheint.
- Der Kühlventilator regelt die interne Temperatur; seine Leistung wird automatisch geregelt. Das Ventilatorgeräusch kann sich während des Betriebs aufgrund der Ventilatorgeschwindigkeit ändern.

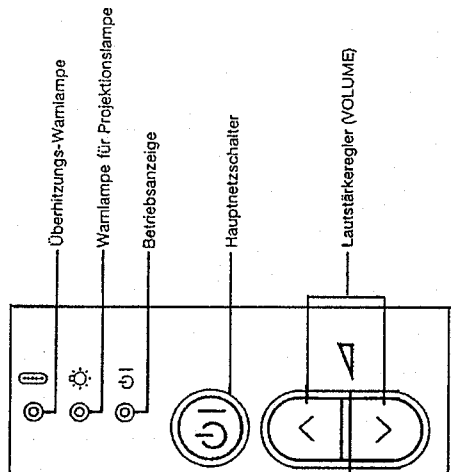
TEMP.



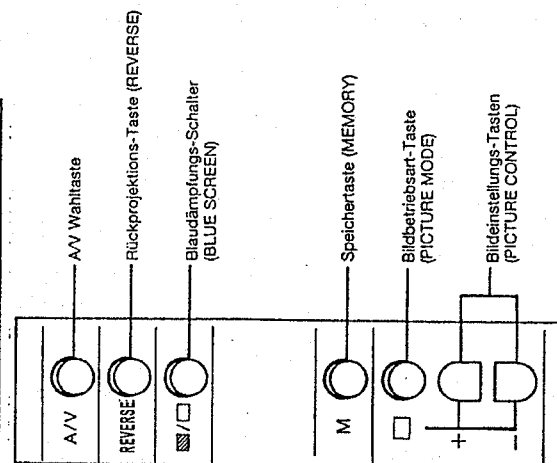
Rückseite



Oberseite des Projektors



Bedienelemente unter der Abdeckung



BEFESTIGUNG FÜR STATIVSCHRAUBE (Unterseite)

Stativ
Ein Stativ wählen, daß stabil genug ist, um das gesamte Gewicht der Einheit (20 kg) zu tragen.

Vorsicht:
• Kein kleines Stativ verwenden, da ein solches nicht stabil genug zum Tragen der Einheit ist.
• Wenden Sie sich bei Fragen an den SHARP-Händler oder den SHARP-Kundendienst.

Die Abdeckung mit der Fingerspitze an der mit "Δ" markierten Stelle anheben.

Aufbau des Projektors

Vorsichtsmaßnahmen bei der Installation

Den Projektor nicht an Orten mit hoher Luftfeuchtigkeit oder mit viel Staub aufstellen. Orte vermeiden, an denen er Zigarettenrauch und Ruß ausgesetzt ist. Wenn das Objektiv, der Spiegel oder andere optische Bauteile verschmutzt sind, kann das Bild verschwommen oder dunkel sein und das Betrachten erschweren.

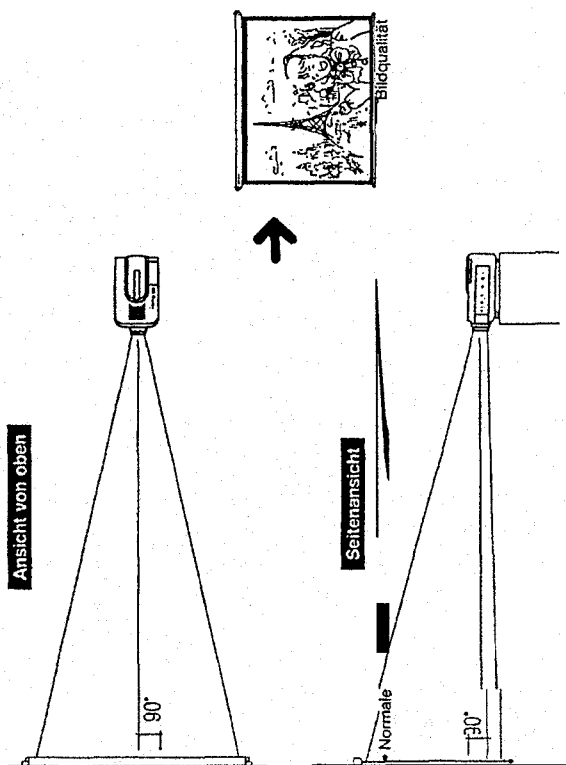
• Den Projektor nicht übermäßiger Hitze oder Kälte aussetzen.

Betriebstemperatur: 5°C~40°C

Lagertemperatur: -20°C~55°C

Beispiel für die Aufstellung

- Die Bildwand so aufstellen, daß sie nicht direktem Sonnenlicht oder der Zimmerbeleuchtung ausgesetzt ist. Direkt auf die Bildwand fallendes Licht macht die Bildwand weiß und erschwert das Betrachten. Die Vorhänge schließen, wenn die Bildwand in einem hellen Raum verwendet wird.
- Den Projektor mit einem Winkel von 90° zur Bildwand aufstellen, um eine optimale Bildqualität zu erzielen.



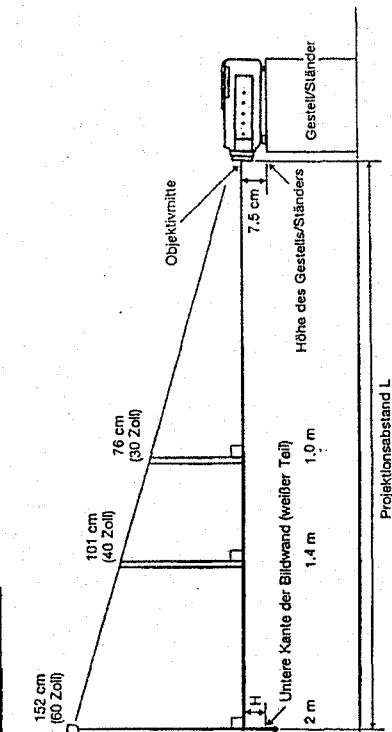
Wenn die Bildwand und der Projektor nicht richtig aufgestellt sind, kann das Bild verzerrt und die ☐ erachtetung erschwert sein.

- Mit dem Zoomobjektiv kann das Bild auf der Bildwand innerhalb des Fokusbereiches frei eingestellt werden.
- Der Projektionsabstand des Objektivs beträgt 1 m~4 m. Der Abstand zwischen Projektor und Bildwand sollte innerhalb dieses Bereiches liegen.

Abhängigkeit zwischen Projektionsabstand und Bildgröße

Bildgröße (diagonal)	Projektionsabstand L	Abstand zwischen Objektmitte und der unteren Kante der Bildwand (H)
152 cm (60 Zoll)	2,0 m	ca. 23 cm
101 cm (40 Zoll)	1,4 m	ca. 16 cm
76 cm (30 Zoll)	1,0 m	ca. 12 cm

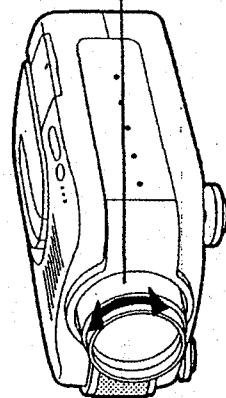
Höhe des Projektors



- Nach dem Aufbau des Projektors die Schärfe wie folgt einstellen.

Scharfstellung

- Das Objektiv so einstellen, daß das projizierte Bild so scharf wie möglich ist.



Anschluß des Projektors

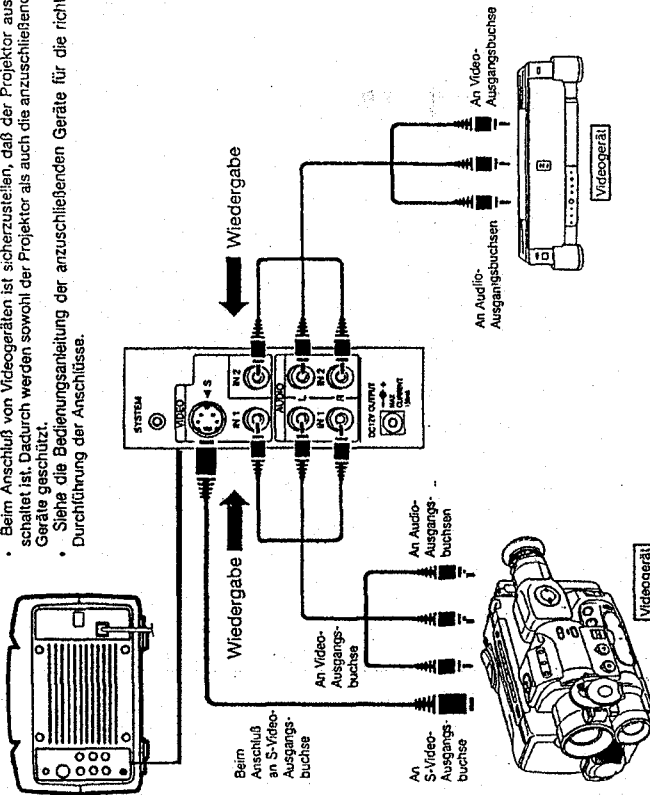
SYSTEM 1

Anschluß des Projektors an Videogeräte für die Wiedergabe.

Rückseite

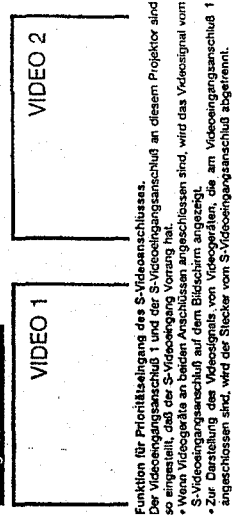
Hinweise:

- Beim Anschluß von Videogeräten ist sicherzustellen, daß der Projektor ausgeschaltet ist. Dadurch werden sowohl der Projektor als auch die anzuschließenden Geräte geschützt.
- Siehe die Bedienungsanleitung der anzuschließenden Geräte für die richtige Durchführung der Anschlüsse.



Mit der AV Wahltaaste VIDEO 1 oder VIDEO 2 einstellen.

Anzeige auf der Bildwand

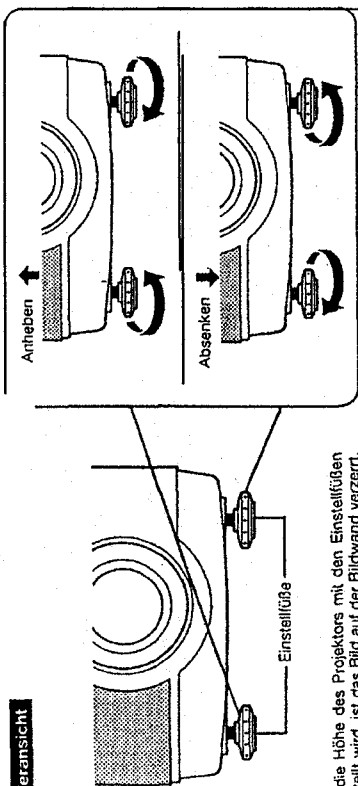


Aufbau des Projektors

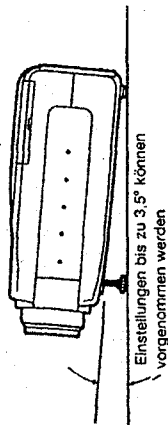
Einstellung von Horizontale und Höhe

- Die Einstellfüße auf der Unterseite des Projektors zum Einstellen der Höhe verwenden.

Vorderansicht



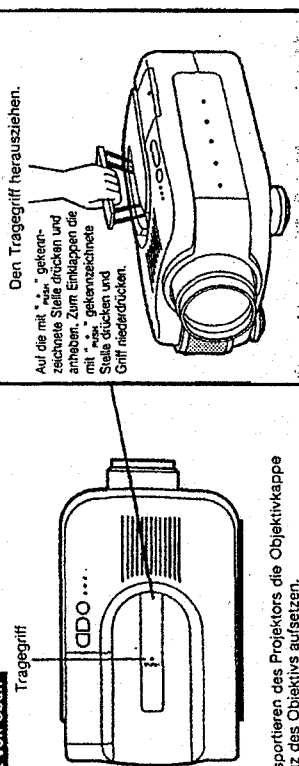
Wenn die Höhe des Projektors mit den Einstellfüßen eingestellt wird, ist das Bild auf der Bildwand verzerrt, da der Projektor nicht mehr im rechten Winkel zur Bildwand steht.



Transport des Projektors

- Den Traggriff zum Transportieren des Projektors verwenden.

Ansicht von oben

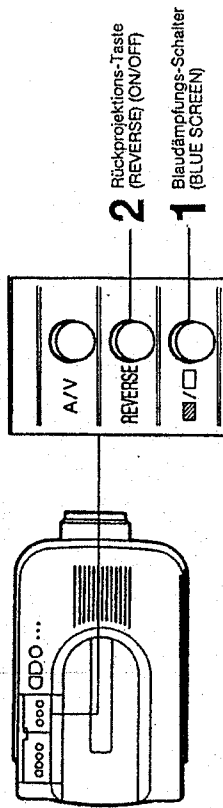


Zum Transportieren des Projektors die Objektivkappe zum Schutz des Objektivs aufsetzen.

Sonstige Funktionen

- Bei eingeschalteter Blaumdämpfungs-Funktion wird die Anzeige auf der Bildwand auf blau geschaltet, wenn kein Videosignal in den Projektor eingegeben wird.
- Den Blaumdämpfungs-Schalter zum Ausschalten der Blaumdämpfungs-Funktion noch einmal drücken.

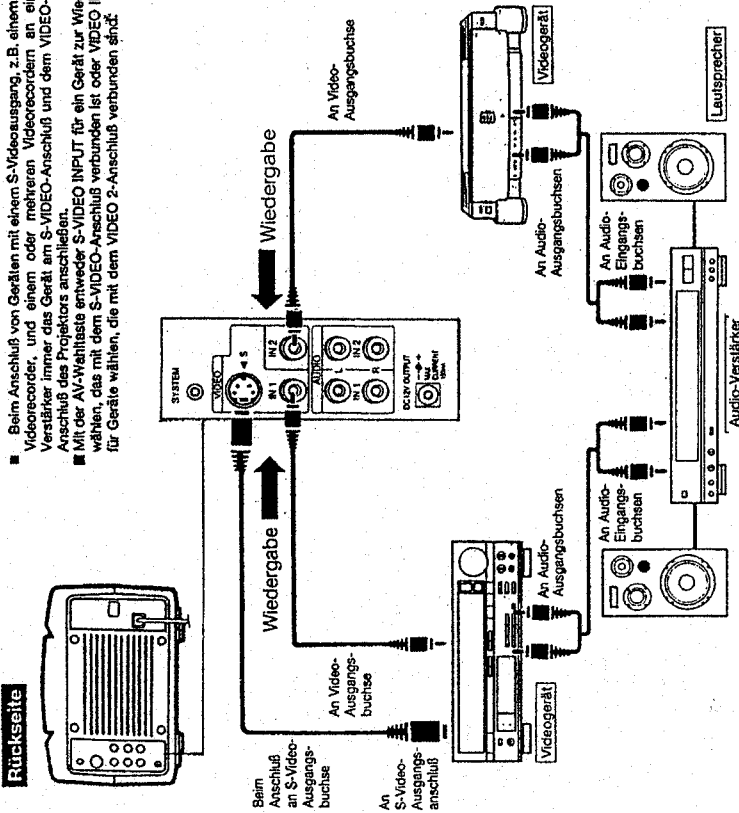
Bedienelemente hinter der Abdeckung



SYSTEM 2

Anschluß des Projektors an Video- und Audiogeräte für die Wiedergabe. (Mit einem Audio-Verstärkeranschluß.)

- Beim Anschluß von Geräten mit einem S-Videoausgang, z.B. einem S-VHS-Videorecorder, und einem oder mehreren Videorecordern an einen AV-Verstärker, immer das Gerät am S-VIDEO-Anschluß und dem VIDEO-2 JACK-Anschluß des Projektors anschließen.
- Mit der AV-Wahltaste entweder S-VIDEO INPUT für ein Gerät zur Wiedergabe wählen, das mit dem S-VIDEO-Anschluß verbunden ist oder VIDEO INPUT 2 für Geräte wählen, die mit dem VIDEO 2-Anschluß verbunden sind.

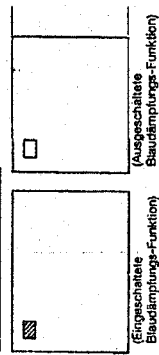


2 Rückprojektion

1 Blaumdämpfungs-Funktion

- Beim Drücken des Blaumdämpfungs-Schalters wird für einige Sekunden die folgende Anzeige auf der Bildwand angezeigt.

Anzeige auf der Bildwand

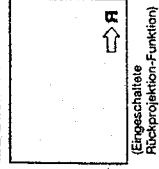


- Bei Einstellung des Blaumdämpfungs-Schalters auf die $\square$ -Position (ON) wird der Projektor auf Blaue Wiedergabe umgeschaltet, wenn kein Signal oder Rauschen eingegeben wird. (Wenn die Blaumdämpfungs-Funktion länger als 15 Minuten eingeschaltet ist, wird die automatische Abschaltfunktion aktiviert und das Gerät automatisch ausgeschaltet. Führt Minuten vor dem Ausschalten wird die verbleibende Zeit (in Minuten) in Auslösen von einer Minute in der linken oberen Ecke der Bildwand angezeigt.)

5

- Nach dem Drücken der Rückprojektions-Taste auf die Rückprojektions-Betriebsart wird für einige Sekunden die folgende Anzeige auf der Bildwand angezeigt.

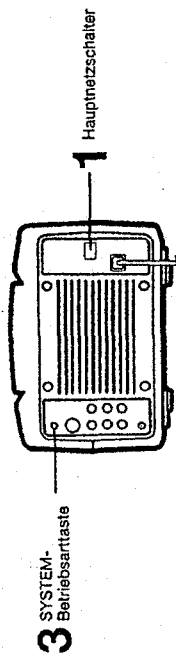
Anzeige auf der Bildwand



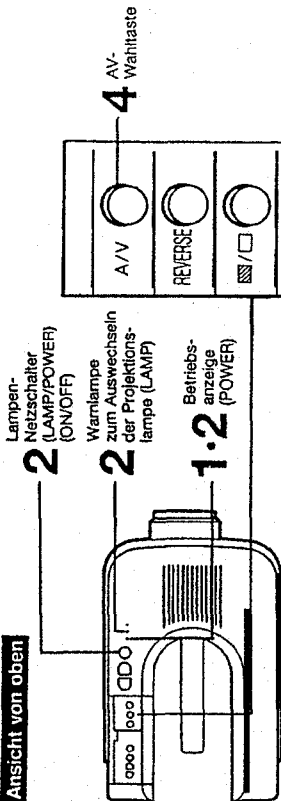
- Wenn ein Spiegelbild oder ein umgekehrtes Bild für eine Rückprojektion notwendig ist, kann das Bild mit der Rückprojektions-Taste umgeschaltet werden. Die Rückprojektions-Taste drücken. Das auf der Bildwand wiedergegebene Bild wird als Spiegelbild des Videoeingangssignals wiedergegeben. Die Taste erneut drücken. Jetzt wird das Bild wieder normal wiedergegeben.

Verwendung des Projektors

Ansicht von hinten



Ansicht von oben



1 Den Hauptnetzschalter einschalten.

Den Hauptnetzschalter auf ON stellen.

Bei der erstmaligen Verwendung des Projektors oder wenn die Betriebsanzeige nicht aufleuchtet, wird der Hauptnetzschalter auf ON gestellt. (Anzeige leuchtet rot auf.)

Die Betriebsanzeige erlöscht, wenn der Hauptnetzschalter auf OFF geschaltet wird.

Anzeige leuchtet nicht auf:
Der Hauptnetzschalter auf OFF geschaltet.

Anzeige leuchtet rot auf:
Betriebsbereitschaft

Anzeige leuchtet grün auf:
Projektionslampe eingeschaltet.

2 Einschalten der Lampe

Den Lampen-Netzschalter (ON/OFF) drücken.

Grün: Lampe ist eingeschaltet.
Blinkende grüne Anzeige: Lampe wird aufgewärmt.
Rot: Lampe sollte ausgetauscht werden.
Sicht "Warnungsanzeigen" für weitere Hinweise.

Die Anzeige wechselt auf grün.

Hinweise:

- Selbst wenn die Stromversorgung mit dem Hauptnetzschalter ausgeschaltet ist, arbeitet der Kühlventilator weiter, solange eine hohe Temperatur im Inneren des Projektors vorhanden ist (ca. 90 Sekunden). Nicht das Netzkabel ziehen, solange der Kühlventilator arbeitet.
- Wenn der Projektor sofort nach dem Ausschalten wieder eingeschaltet wird, kann bis zum Einschalten der Lampe eine kurze Zeit vergehen. (Während dieser Zeit blinkt die Betriebsanzeige für die Projektionslampe grün.)

3 Systemwechsel

Die SYSTEM-Taste drücken.

Beim Drücken der Taste wird das gewählte Fernsehsystem in der oberen rechten Ecke der Bildwand für einige Sekunden angezeigt.

(PAL System) (SECAM System) (NTSC 4.43 System) (NTSC 3.58 System)

(AUTO-Betriebsart) (PAL) (NTSC 3.58 System) (NTSC 4.43 System) (NTSC 3.58 System)

Beim Empfang eines PAL-Signals

In der automatischen Betriebsart wird "PAL", "SECAM", "NTSC 4.43" oder "NTSC 3.58" für einige Sekunden auf der Bildwand angezeigt, wenn die Betriebsart automatisch geändert wird.

4 AN-Wahl

Die AV-Wahl Taste drücken.

AV-Taste auf dem Bedienfeld des Projektors. Beim Drücken der Taste ändert sich die Anzeige wie folgt:

VIDEO 1 → VIDEO 2

Die Anzeige auf der Bildwand ändert sich wie in der folgenden Abbildung.

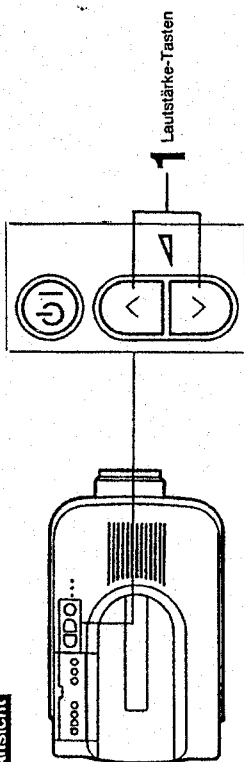
Hinweise:

- Dieser Projektor ist mit drei Videoeingangssystemen ausgestattet: S-Video, Video-1 und Video-2.
- Zur Wahl zwischen diesen Systemen die AV-Wahl Taste zur Wahl des Eingangs von den VIDEO-1-(S-VIDEO hat Vorrang) oder VIDEO-2-Bucdian verwenden.

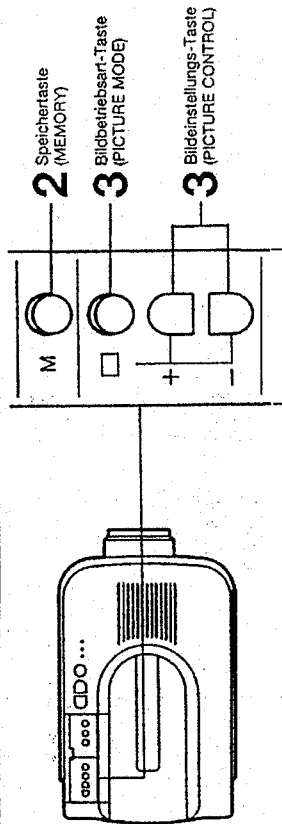
Bild- und Toneinstellungen

- Das Bild dieses Projektors ist ab Werk auf Standard-Wiedergabe eingestellt. Mit den VIDEO ADJUST-Tasten kann das Bild nach Wunsch eingestellt werden.
- Die Einstellungen mit den Tasten werden gespeichert.

Ansicht

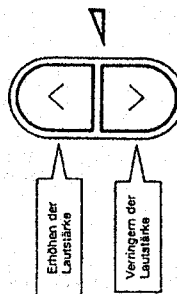


Bedienelemente hinter der Abdeckung

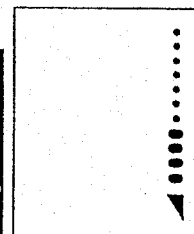


1 Einstellung der Lautstärke

Die Lautstärke-Taste drücken.



Anzeige auf der Bildwand



Die Anzahl der angezeigten Punkte (0-16) verringert oder erhöht sich je nach Einstellung der Lautstärke.

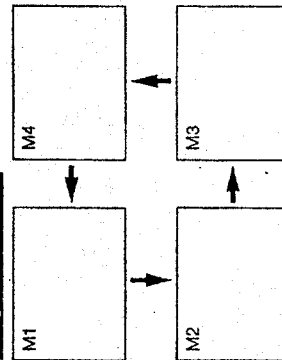
2 Speichern von Bildeinstellungen

Die Speichertaste drücken.



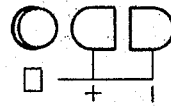
- Beim Drücken der Speichertaste werden die gegenwärtigen Einstellungen für ca. vier Sekunden auf der Bildwand angezeigt.

Anzeige auf der Bildwand

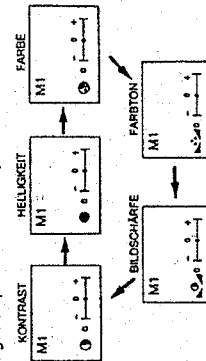


3 Bildeinstellungen

Die Bildbetriebsart- und Bildeinstellungs-Tasten zur gewünschten Einstellung verwenden.



Beim Drücken der Bildbetriebsart-Taste ändert sich die Bildbetriebsart wie folgt.
(M1 zeigt die Speichernummer an.)

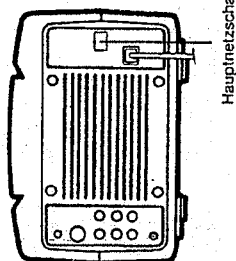
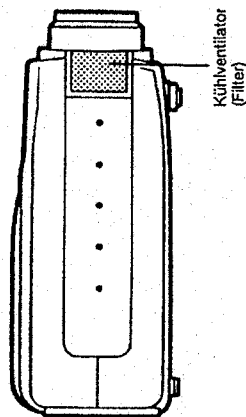


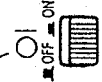
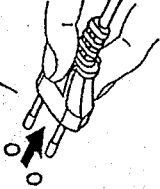
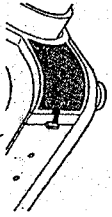
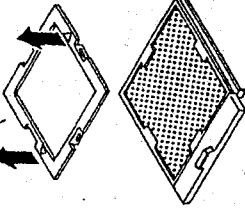
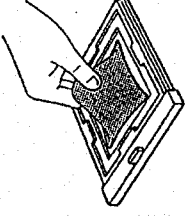
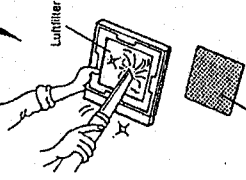
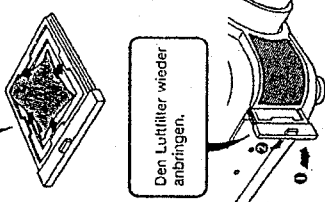
- Die einzustellende Betriebsart wählen und mit den Bildeinstellungs-Tasten die Einstellungen vornehmen.
- Die Betriebsarten werden für einige Sekunden auf der Bildwand angezeigt. Die Einstellungen müssen während der Anzeige auf der Bildwand vorgenommen werden.

Die Farbion-Einstellung kann nur bei einem NTSC-Signal durchgeführt werden.

Reinigung des Luftfilters

- Der Filter sollte alle 100 Betriebsstunden gereinigt werden. Wenn der Projektor Staub oder Rauch ausgesetzt ist, sollte der Filter öfter gereinigt werden.
- Wenn der Luftfilter zu schmutzig zum Reinigen ist, sollte er ausgetauscht werden. Wenden Sie sich in diesem Fall an den Händler.



1 Gerät ausschalten  Den Hauptnetzschalter auf OFF stellen.	2 Ziehen des Netzsteckers  Zum Ziehen des Netzsteckers bitte am Stecker anfassend und keinesfalls am Kabel ziehen. In manchen Ländern kann die Form des Steckers von der Abbildung abweichen.	3 Den Luftfilter entfernen.  Zum Entfernen des Luftfilters zuerst die vorspringende Lasche greifen und dann den Filter in Pfeilrichtung bewegen. Dann den Filter gerade in Pfeilrichtung herausziehen.	4 Den Filterhalter entfernen  Den X*-markierten Teil der Filterhalters in Pfeilrichtung ziehen, um den Filterhalter loszuheben.	5 Den Schwammfilter entfernen.  Den Schwammfilter durch Ziehen entfernen.	6 Den Luftfilter reinigen.  Den Staub von Luftfilter und Schwammfilter mit einem Staubsauger absaugen. Schwammfilter Wenn der Filter sehr schmutzig ist, ihn mit einem neutralen, in kaltem oder lauwarmem Wasser aufgelösten Reinigungsmittel säubern, dann den Filter in der Sonne trocknen lassen.	7 Den Luftfilter auswechseln.  Den Schwammfilter im Luftfilter auswechseln. Den Luftfilter wieder anbringen. Die oberen und unteren Kanten mit den Nuten im Projektor angesehen und den Filter einschieben.
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Bei Störungen

Kein Bild	• Der Projektor ist nicht an eine Netzsteckdose angeschlossen. • Der Hauptnetzschalter (MAIN POWER) ist ausgeschaltet. • Der Helligkeitsregler (BRIGHT) (-) ist auf Minimum gestellt. • Sind die Farben (siehe "Bild- und Toneinstellungen") richtig eingestellt?
Schwache oder verschwommene Farben	• Die Schärfe einstellen. • Der Projektionsabstand ist zu groß oder zu klein für eine richtige Scharfstellung.
Verschwommenes Bild	• Wenn das Bild normal ist, entstehen Geräusche durch Verziehungen des Gehäuses durch Temperaturänderungen. Dies hat keinen Einfluß auf den Betrieb.
Aus dem Gehäuse kommen manchmal außergewöhnliche Geräusche.	• Siehe "Warnlampen"
Warnlampe leuchtet	• Überprüfen, ob der Lautstärkeregler vollständig zurückgedreht ist • Überprüfen und sicherstellen, daß die Kabel auf der Rückseite des LCD-Projektors richtig angeschlossen sind.
Kein Ton	

Lampe

- Die Projektionslampe hat eine begrenzte Lebensdauer.

Wenn die Lampe fast verbraucht ist, nehmen die Bild- und Farbqualität ab. Die Lampe durch den Kundendienst auswechseln lassen.

Das Auswechseln der Projektionslampe erfordert technische Fachkenntnisse und sollte nur durch Ihren Sharp-Händler oder den Sharp-Kundendienst erfolgen.

Warnlampen

- Die Warnlampen des Projektors leuchten auf, wenn irreguläre Bedingungen vorliegen.
- Der Projektor besitzt Warnlampen für Überhitzung und für erforderliches Auswechseln der Lampe.
- Wenn ein Defekt des Projektors auftritt, leuchtet die Überhitzungs- oder Projektionslampen-Warnlampe rot auf und das Gerät schaltet sich aus. In solchen Fällen den Hauptnetzschalter ausschalten und die folgenden Prüfungen vornehmen.

Warnlampe	Symptom	Mögliche Fehlerquellen	Maßnahmen
Überhitzung	Innentemperatur zu hoch.	• Lufteinlässe blockiert	• Projektor an einer günstigeren Stelle aufstellen.
		• Luftfilter zugesetzt	• Luftfilter reinigen
		• Kühlgebläse defekt • Interne Schaltungen defekt	Projektor in Reparatur geben.
Projektionslampe	Projektionslampe leuchtet nicht.	• Projektionslampe am Ende ihrer Lebensdauer • Projektionslampenschaltkreis defekt	Projektor in Reparatur geben.

HINWEISE:

Wenn die Überhitzungs-Warnlampe rot aufleuchtet und das Gerät ausgeschaltet wird, stellt sich der Projektor auf die Bereitschafts-Betriebsart ein. Nach dem Ausschalten des Projektors warten, bis die Temperatur im Inneren des Gerätes vor dem Wiedereinschalten ausreichend abgekühlt ist (mindestens fünf Minuten).

ENTFERNEN DER HAUPTTEILE

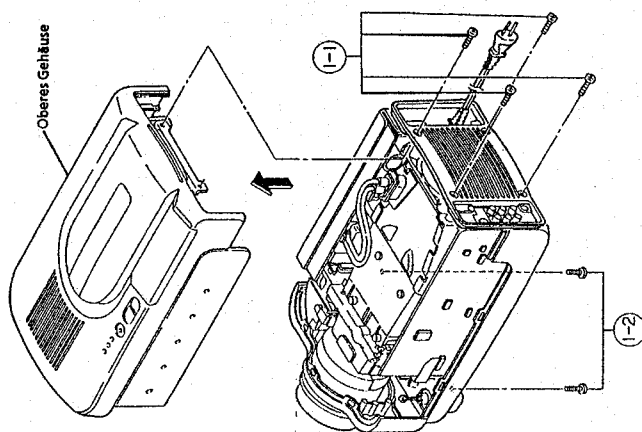
1. Entfernen der Rückplatte

- 1-1. Die sechs Schrauben der Rückplatte losschrauben und dann die Rückplatte abnehmen.
 1-2. Die beiden Schrauben an der Geräteunterseite losschrauben. Das Gehäuseoberteil nach oben ziehen.

Zur Beachtung beim Umgang mit dem Gehäuse

Beim Abnehmen und Anbringen des Gehäuseoberteils müssen die folgenden Punkte beachtet werden. Das Kabel, über das die Lautsprecher im Gehäuseoberteil mit der Hauptplatine verbunden sind, ist kurz. Das Gehäuseoberteil nicht zu weit nach oben ziehen, weil sonst der Kabelstecker beschädigt werden kann. Das Gehäuseoberteil langsam ein wenig anheben, das Lautsprecherkabel vom Steckverbinder "Sp" auf der Hauptplatine abtrennen und dann das Gehäuseoberteil vollständig abnehmen. Um das Gehäuseoberteil wieder anzubringen, zuerst das Lautsprecherkabel wieder an den Steckverbinder "Sp" auf der Hauptplatine anschließen, dann das Gehäuseoberteil auf das Gehäuseunterteil setzen. Dabei muß das flexible Kabel, das zwischen der LCD-Tafel und der Hauptplatine verläuft, im Gehäuseoberteil gehalten werden. Dieses Kabel kann zwischen dem Gehäuseoberteil und Gehäuseunterteil eingeklemmt werden.

1



35

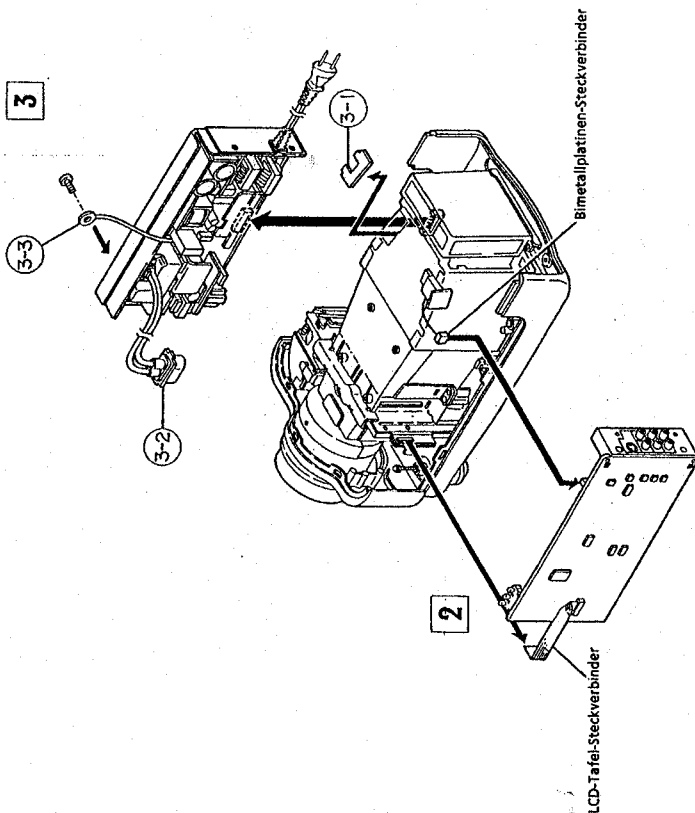
2. Entfernen der Platine

Den Steckverbinder der LCD-Tafel und den Steckverbinder des Bimetallteils lösen.

3. Entfernen des Lampenvorschaltgeräts und der Netzplatineneinheit.

- 3-1. Die Lampenführungsverriegelung aufdrehen und die Lichtabschirmplatte herausnehmen.
 3-2. Die Verriegelung der Lampenführungsverriegelung losdrehen und die Halterung abnehmen.
 3-3. Die Schraube losschrauben, um die Erdungsanschlußklemme zu lösen. Dann das Lampenvorschaltgerät und das Netzgerät herausnehmen.

3



36

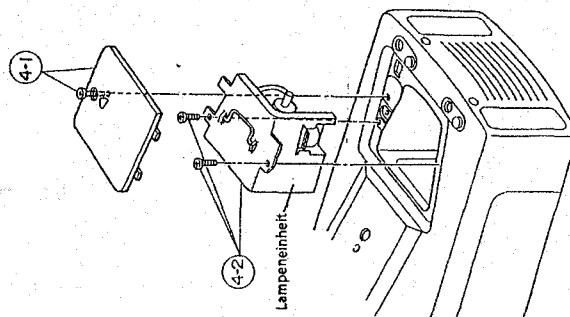
4. Entfernen der Lampeneinheit

- 4-1. Die Schraube losschrauben, um die Bodenabdeckung abzunehmen.
4-2. Die beiden Schrauben der Lampeneinheit losschrauben. Die Lampeneinheit herausnehmen.

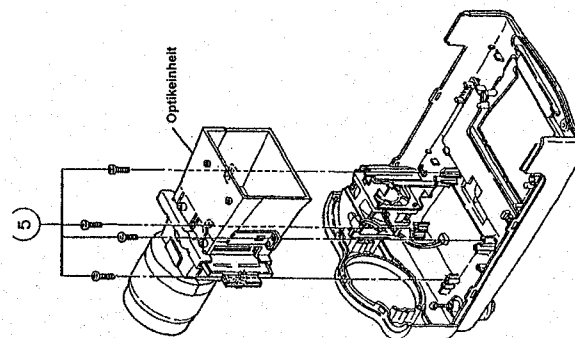
5. Entfernen der Optikeinheit

Die vier Schrauben der Optikeinheit losschrauben und die Optikeinheit herausnehmen.

4



5



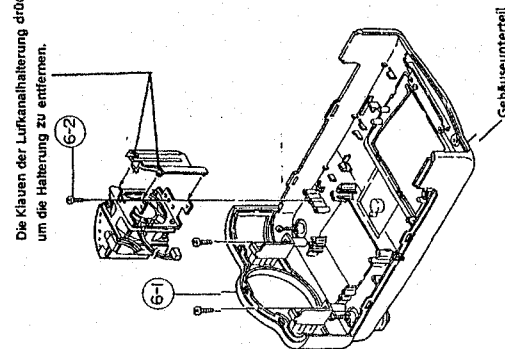
6. Entfernen des Gebläses

- 6-1. Die beiden Schrauben losschrauben, um die Frontabdeckung des Gerätes herauszunehmen.
6-2. Die vier Klauen gedrückt halten und die Luftkanalhalterung lösen. Dann die Schraube losschrauben, um die Gebläseeinheit herauszunehmen.

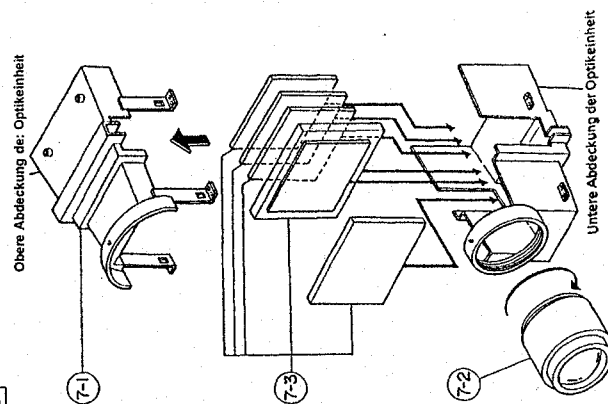
7. Zerlegung und Wiederausammenbau der Optikeinheit

- 7-1. Die obere Abdeckung der Optikeinheit hochziehen.
7-2. Das Projektionsobjektiv im Uhrzeigersinn drehen und das Objektiv abnehmen.
7-3. Die folgenden Teile der Optikeinheit hochziehen: Fresnel-Linse, Lichteintritt-Ablenkplatte, LCD-Tafel, Lichtaustritt-Ablenkplatte, Kondensorlinse und UV-Sperrfilter.

6

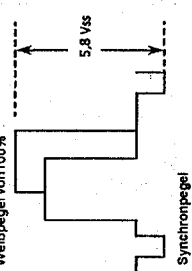
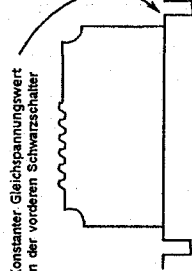


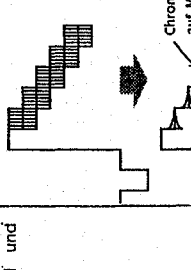
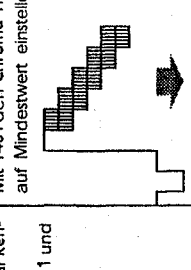
7

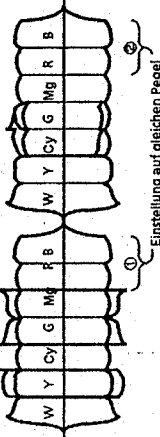
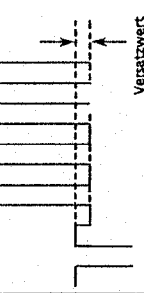
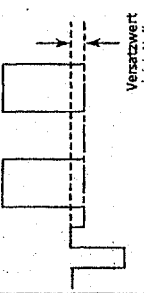
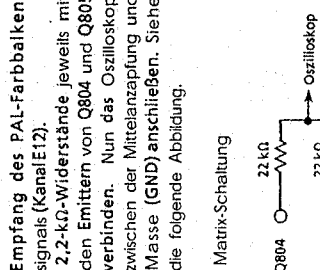
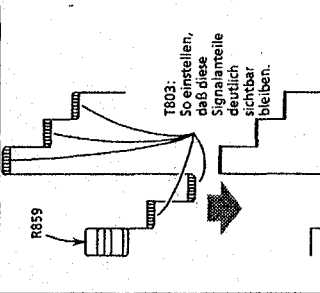


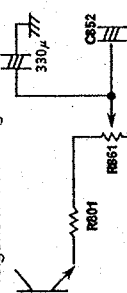
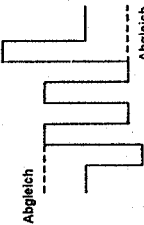
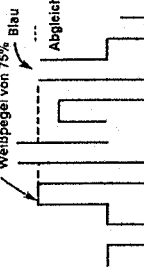
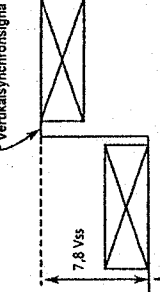
EINSTELLUNG DER ELEKTRISCHEN BAUTEILE

Hinweis: Wenn nicht anders angegeben, sind alle Einstellungen bei Normalbedingungen vorzunehmen.

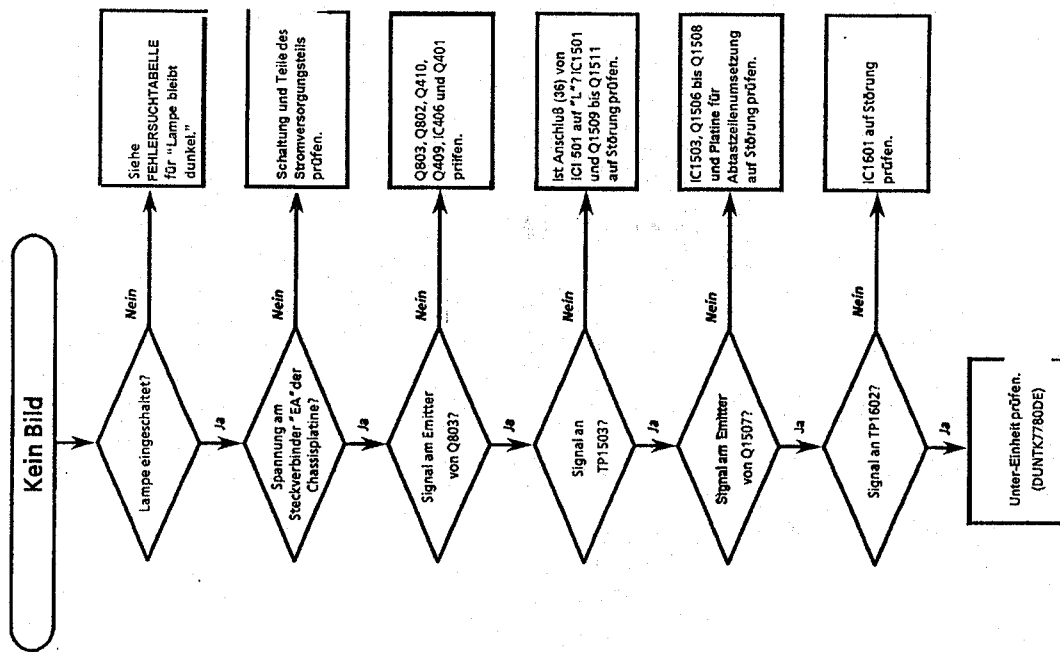
Einstellposition	Einstellzustand	Einstellverfahren
1 AGC (Automatische Verstärkungsregelung): R1546	- Empfang des NTSC-Monoskop-mustersignals. - Voltmeter zwischen TP1501 und Masse (GND) anschließen.	Mit R1546 am Voltmeter eine Spannung von $3,0 \pm 0,05V$ einstellen.
2 Y-Pegel: R861	- Empfang des NTSC-Farbbalken-signals. - Zur Deaktivierung der Gamma-Korrektur eine Spannung von 5 V an TP1604 legen. - Ein Oszilloskop zwischen TP1602 und Masse (GND) anschließen. - Die Gamma-Korrektur aktivieren. - Ist das Signal nicht synchron oder der Weißanteil verfälscht, durch Verstellen von R1604 den ursprünglichen Zustand wiederherstellen.	Mit R861 den Spannungsunterschied zwischen Synchronpegel und 100%-Weißpegel auf $5,8 \pm 0,1 V_{ss}$ 'Weißpegel von 100%' einstellen. 
3 Hilfshelligkeitseinstellung: R2139	- Empfang des NTSC-Monoskop-mustersignals. - Das Oszilloskop zwischen TP1602 (G-Ausgang) und Masse (GND) anschließen. 5 V über einen 6,8-kΩ-Widerstand an TP2001 legen.	Eine 5-V-Lastspannung an TP1604 anlegen und wieder wegnehmen. Diesen Vorgang einige Male wiederholen. Mit R2139 die Gleichspannung an der vorderen Schwarzschiene unabhängig von der Lastspannung an TP1604 auf konstanten Wert einstellen. Konstanter Gleichspannungswert an der vorderen Schwarzschiene 
4 Hilfsvorspannung: R1604 (Grün)	- Empfang des NTSC-Farbbalken-signals. - Das Oszilloskop zwischen TP1602 und Masse (GND) anschließen.	Mit R1604 den Spitzenwert des Synchronsignals auf $-5,5 \pm 0,5V$ einstellen.
5 Hilfsvorspannung: R1602 (Rot)	- Empfang des NTSC-Farbbalken-signals. - Das Oszilloskop zwischen TP1601 und Masse (GND) anschließen.	Mit R1602 die Gleichspannungen an TP1601 und TP1602 auf gleichen Wert einstellen. Gleichspannung an $TP1602 \pm 0,1V$

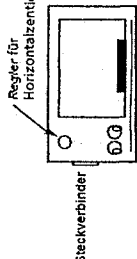
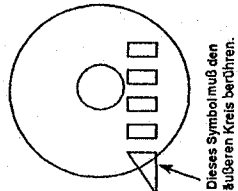
Einstellposition	Einstellzustand	Einstellverfahren
6 Hilfsvorspannung: R1608 (Blau)	- Empfang des NTSC-Farbbalken-signals. - Das Oszilloskop zwischen TP1603 und Masse (GND) anschließen.	Mit R1608 die Gleichspannungen an TP1603 und TP1602 auf gleichen Wert einstellen. Gleichspannung an $TP1602 \pm 0,1V$
7 Weißabgleich: R1629 (B-Ausgang)	- Empfang des NTSC-Monoskop-mustersignals. - Kanal CH1 des Oszilloskops mit TP1602 verbinden. - Kanal CH2 des Oszilloskops mit TP1603 (B-Ausgang) verbinden und den Signalverlauf umkehren.	Die Signalverläufe für CH1 und CH2 in Betriebsart ADD verfolgen. Mit R1629 die Amplitude auf Mindestwert einstellen.
8 Weißabgleich: R1623 (R-Ausgang)	- Empfang des NTSC-Monoskop-mustersignals. - Kanal CH1 des Oszilloskops mit TP1602 verbinden. - Kanal CH2 des Oszilloskops mit TP1601 (R-Ausgang) verbinden und den Signalverlauf umkehren.	Die Signalverläufe für CH1 und CH2 in Betriebsart ADD verfolgen. Mit R1623 die Amplitude auf Mindestwert einstellen.
9 Chroma-Falle: T402	- Empfang des PAL-Farbbalken-signals. - Oszilloskop zwischen TP401 und Masse (GND) anschließen.	Mit T402 den Chroma-Trägerpegel auf Mindestwert einstellen. 
10 Chroma-Falle: T401	- Empfang des SECAM-Farbbalken-signals. - Oszilloskop zwischen TP401 und Masse (GND) anschließen.	Mit T401 den Chroma-Trägerpegel auf Mindestwert einstellen. 

Einstellposition	Einstellzustand	Einstellverfahren
11 SECAM-Pegelfilter: T805	- Empfang des SECAM-Farbbalkensignals. - Oszilloskop zwischen TP806 und Masse (GND) anschließen.  Einstellung auf gleichen Pegel	Mit T805 die R/B-Signale (1) und (2) auf den beiden Kanälen auf gleiche Amplitude einstellen.
12 SECAM-B-Y: T802	- Empfang des SECAM-Farbbalkensignals. - Oszilloskop zwischen TP803 und Masse (GND) anschließen. - Mit T802 den Versatzwert auf Null einstellen. Siehe hierzu die Abbildung rechts. 	
13 SECAM-R-Y: T801	- Empfang des SECAM-Farbbalkensignals. - Oszilloskop zwischen TP804 und Masse (GND) anschließen. - Mit T801 den Versatzwert auf Null einstellen. Siehe hierzu die Abbildung rechts. 	
14 SECAM-ID: T804	- Empfang des SECAM-Farbbalkensignals. - Oszilloskop zwischen TP805 und Masse (GND) anschließen.	Mit T804 den höchsten Gleichspannungswert einstellen.
15 PAL-1H-Verzögerung, Phase: T803 PAL-1H-Verzögerung, Verstärker: R859	- Empfang des PAL-Farbbalkensignals (Kanal E12). 2,2-kΩ-Widerstände jeweils mit den Emittern von Q804 und Q805 verbinden. Nun das Oszilloskop zwischen der Mittelanzapfung und Masse (GND) anschließen. Siehe die folgende Abbildung. Matrix-Schaltung  T803: So einstellen, daß diese Signalelemente deutlich sichtbar bleiben.	Signalverlauf nach der Einstellung 

Einstellposition	Einstellzustand	Einstellverfahren
16 NTSC-Farbtön: R860	- Empfang des NTSC-Farbbalkensignals. - Den Farb- und Kontrastregler an der Frontplatte um 10 Stufen in Richtung Rotfarbtönung versetzen (-10 Punkte). Zur Reduzierung des Y-Pegels einen 330-μF-Kondensator gemäß folgender Abbildung anschließen. 	Mit R860 den Signalverlauf gemäß folgender Abbildung einstellen. 
17 Farbsättigung: R858 (Hilfsfarbe)	- Empfang des NTSC-Farbbalkensignals. - Das Oszilloskop zwischen TP803 und Masse (GND) anschließen. - Farb- und Kontrastregler auf +7 Punkte einstellen.	Mit R858 den Signalverlauf gemäß folgender Abbildung einstellen. 
18 Hilfsvorspannung (RGB): R1434	- Empfang des Monoskopmustersignals. - Das Oszilloskop zwischen TP1405 (G-Ausgang) und Masse (GND) anschließen.	Mit R1434 die Vertikal-synchronpegeldifferenz zwischen den Schwarzanteilen an TP1405 auf $7,8 \pm 0,1$ Vss einstellen. 
19 Zählervorspannung: R520	- Dieleoe Einstellung in einem dunklen Raum mit Hilfe der nachstehend aufgeführten Werkzeuge und Meßgeräte vornehmen. - Empfang des NTSC-Monoskopmustersignals.	Mit R520 den Klangkontrast auf Maximalwert einstellen.
20 Hilfsvorspannung (Rod): R1602 Hilfsvorspannung (Blau): R1608	Empfang des NTSC-Monoskopmustersignals.	Mit R1602 und R1608 die Weißbalance auf Optimalwert einstellen.

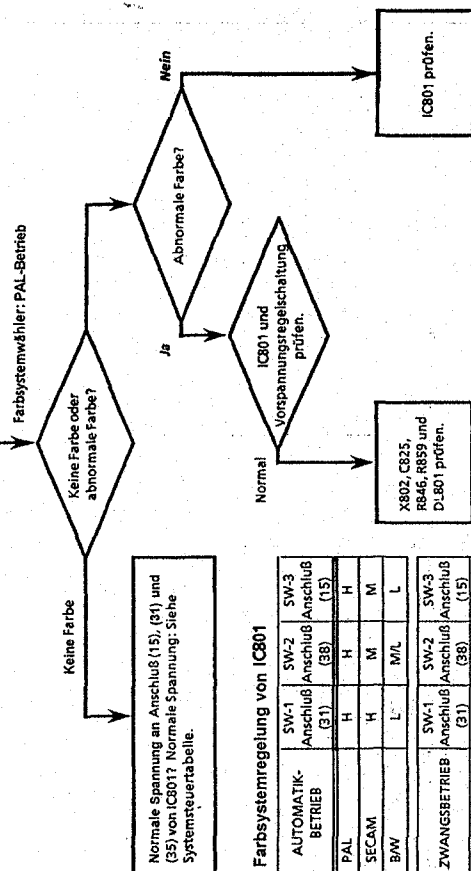
FEHLERSUCHTABELLE



Einstellposition	Einstellzustand	Einstellverfahren
21 NTSC-Horizontal-zentrierung	Empfang des NTSC-Monoskop-mustersignals. 	Mit dem Regler an der Frontplatte (siehe die Abbildung links) das Bild in der Schirmmitte zentrieren.
22 Abtastzeile, Umsetzphase: R1119	Empfang des PAL-Monoskop-mustersignals.	Mit R1119 das Bild in Schirmmitte zentrieren.
23 Schwingungsfrequenz: L1001	- Masseanschluß (70) von IC1001. - Frequenzzähler zwischen TP1001 und Masse (GND) anschließen.	Mit L1001 die Schwingungsfrequenz auf $15,625 \pm 0,01 \text{ kHz}$ einstellen.
24 Schwingungsfrequenz: L1002	- Masseanschluß (43) von IC1001. - Frequenzzähler zwischen TP1002 und Masse (GND) anschließen.	Mit L1002 die Schwingungsfrequenz auf $15,625 \pm 0,01 \text{ kHz}$ einstellen.
25 Markenposition: T2001	- Die Marken auf den Bildschirm bringen. - Mit T2001 die Marken auf dem Bildschirm positionieren. - Empfang des NTSC-Farbbalkensignals. - Die VOL-Faste drücken. 	
26 Audioausgang: R2062	Das Voltmeter zwischen der Mittelanzapfung von R2062 und Masse (GND) anschließen.	Durch Drücken der VOL-Faste den Lautstärkepegel von Mindestwert auf vierte Stufe bringen (an der die zweite Marke auf Rot umschlägt). Mit R2062 am Voltmeter eine Spannung von $0,8 \pm 0,02 \text{ V}$ einstellen.

FEHLERSUCHTABELLEN (Fortsetzung)

(Unbestimmte Farbe (PAL))



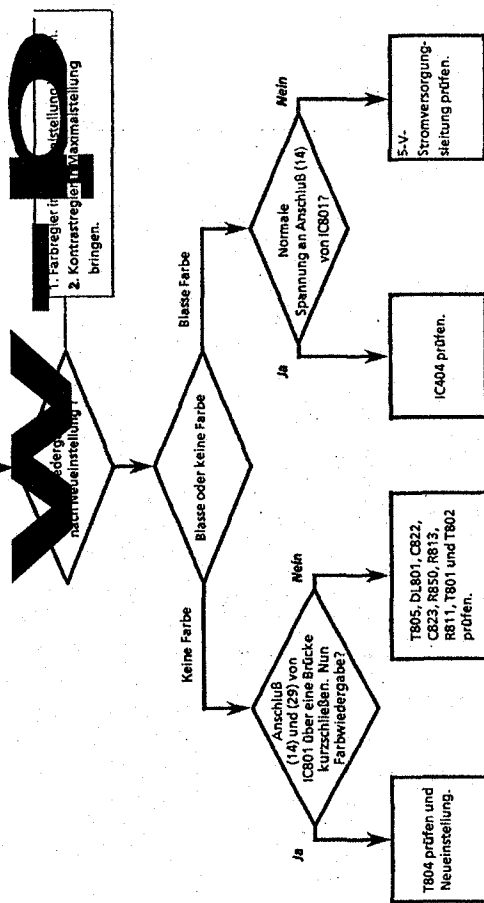
Farbsystemregelung von IC801

	SW-1 Anschluß (31)	SW-2 Anschluß (38)	SW-3 Anschluß (15)
AUTOMATIK- BETRIEB			
PAL	H	H	H
SECAM	H	M	M
BAV	L	M/L	L
ZWANGSBETRIEB	SW-1 Anschluß (31)	SW-2 Anschluß (38)	SW-3 Anschluß (15)
PAL	H	H	H
SECAM	H	M	M

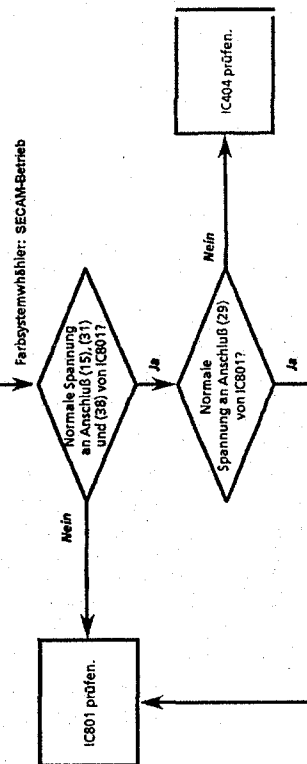
H: über 3V M: 1.5V L: 0V

FEHLERSUCHTABELLEN (Fortsetzung)

(keine oder blasse Farben (SECAM))



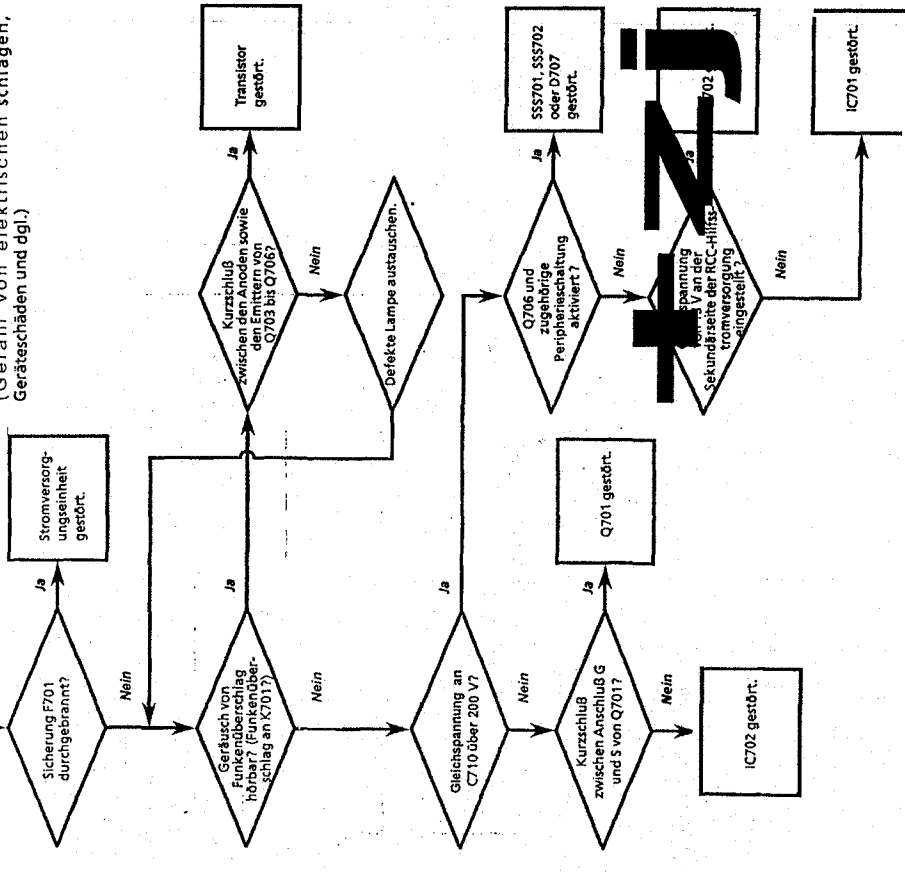
(Unbestimmte Farbe (SECAM))



FEHLERSUCHTABELLEN (Fortsetzung)

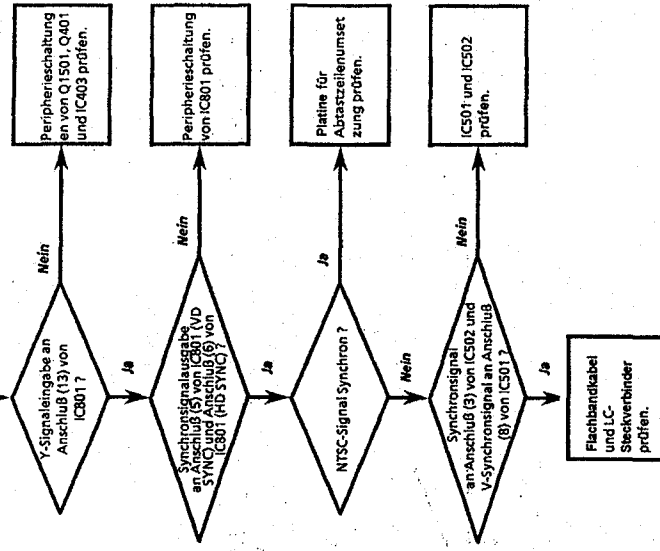
Lampe bleibt dunkel.

Die Stromversorgung unbedingt bei entfernter Lampe einschalten, da die Lampenlast bei Inbetriebnahme Hochspannung erzeugt. (Gefahr von elektrischen Schlägen, Geräteschäden und dgl.)



FEHLERSUCHTABELLEN (Fortsetzung)

Keine Synchronisierung



XV-310P XV-,



DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 220V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20-kohm/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 220V. Signals are fed by a colour bar signal generator for servicing purpose.

INDICATION OF RESISTOR & CAPACITOR:

1. The unit of resistance " Ω " is omitted. ($K = k\Omega = 1000 \Omega$, $M = M\Omega$).
2. All resistors are $\pm 10\%$, unless otherwise noted. ($J = \pm 5\%$).
3. All resistors are $1/8W$, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.

- (C): Solid
 (S): Oxide Film
 (M): Metal Coating

CAPACITOR

1. All capacitors are μF , unless otherwise noted. ($P = pF = \mu F$).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted. (ML): Mylar (TA): Tantalum (PF): Polypropylene Film (ST): Styrol

CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

SAFETY NOTE:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "A" () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 220 V gemessen. Signale werden für die Wartung mit einem Farbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 k Ω /V) ermittelt.

SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 220 V verfolgt. Signale werden für die Wartung mit einem Farbalken-Signal generator zugeführt.

BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

1. Die Widerstandseinheit " Ω " wird weggelassen. ($K = k\Omega = 1000 \Omega$, $M = M\Omega$).
2. Alle Widerstände haben $\pm 10\%$, sofern nicht anders angegeben. ($J = \pm 5\%$).
3. Alle Widerstände haben $1/8W$, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.

- (C): Fest
 (S): Oxidfilm
 (M): Metallüberzug

KONDENSATOR

1. Die Kapazitätseinheit ist μF , sofern nicht anders angegeben. ($P = pF = \mu F$).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramikttyp, sofern nicht anders angegeben. (ML): Mylar (TA): Tantal (PF): Polypropylm (ST): Styrol

ACHTUNG:

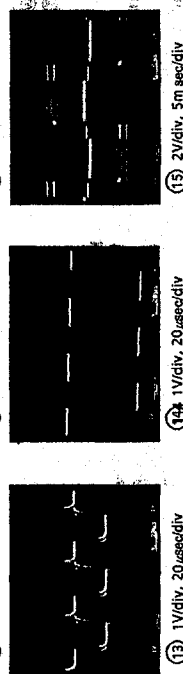
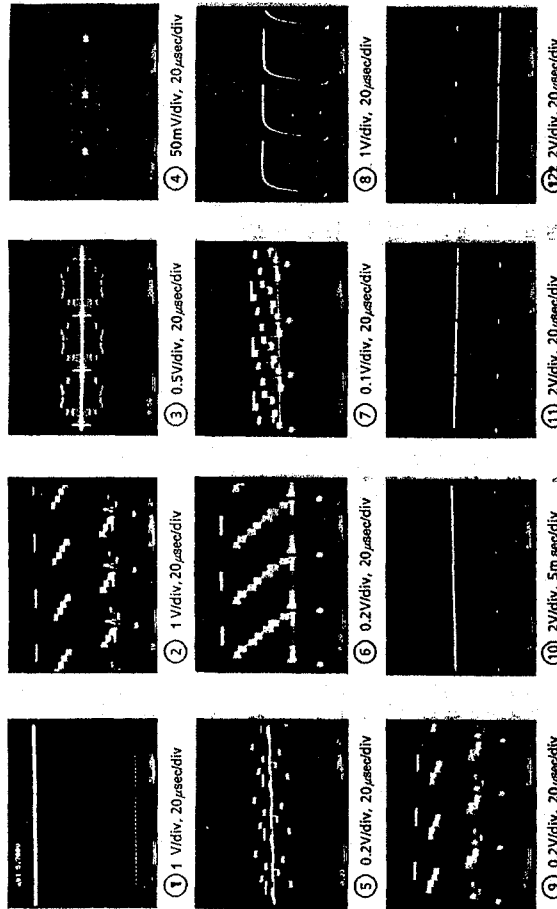
bei diesem Schaltplan handelt es sich um den ursprünglichen. Es können daher geringfügige Unterschiede zu dem Ihrem bestehen.

SICHERHEITSANMERKUNGEN:

1. VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZLEISTUNG GEZOGEN WERDEN.
2. DIE WARME ABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.

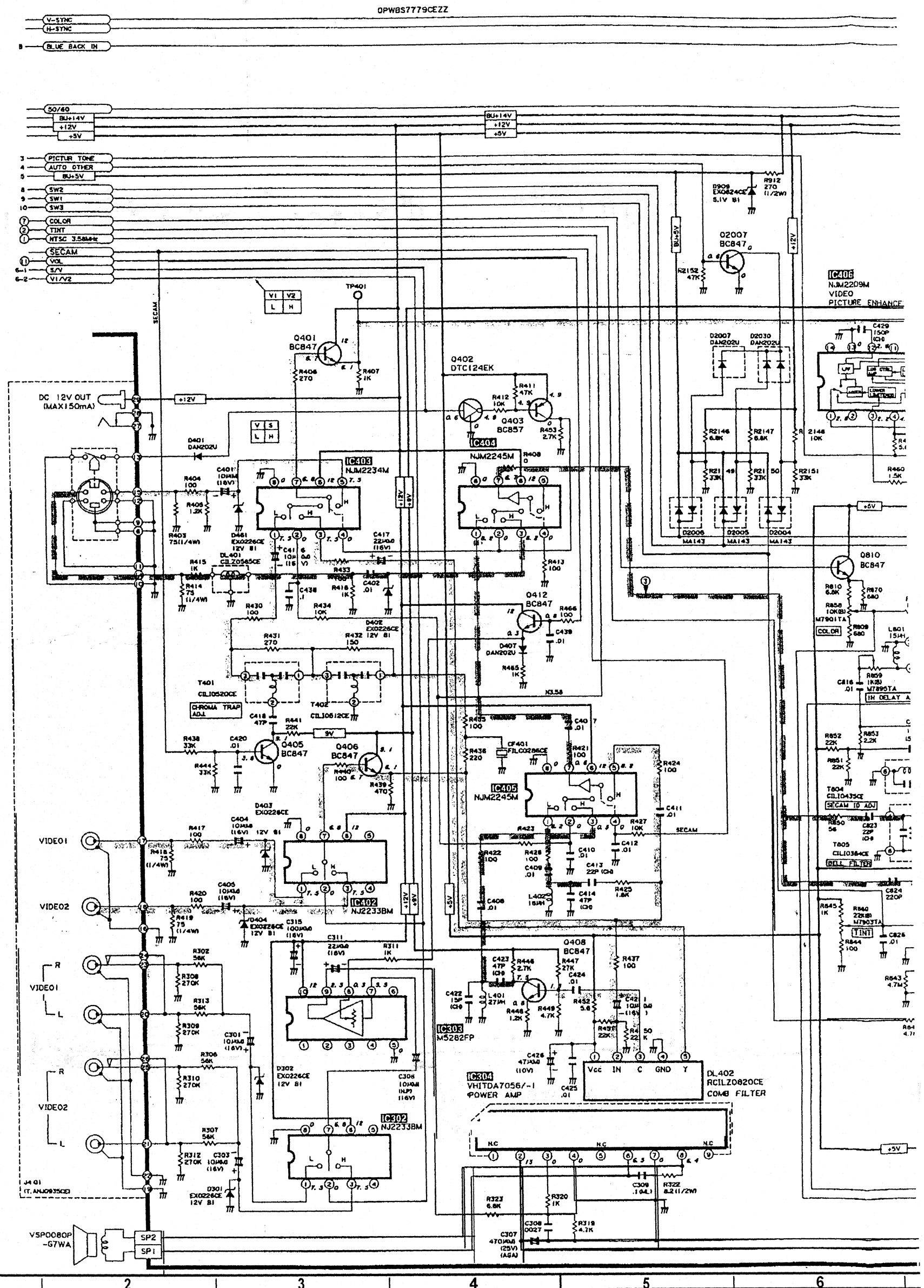
WICHTIGE SICHERHEITSANMERKUNGEN:

MIT "A" () BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRICHTERHALTUNG DER SICHERHEIT. BEIM WECHSELN VON TEILEN SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRICHTZUERHALTEN.



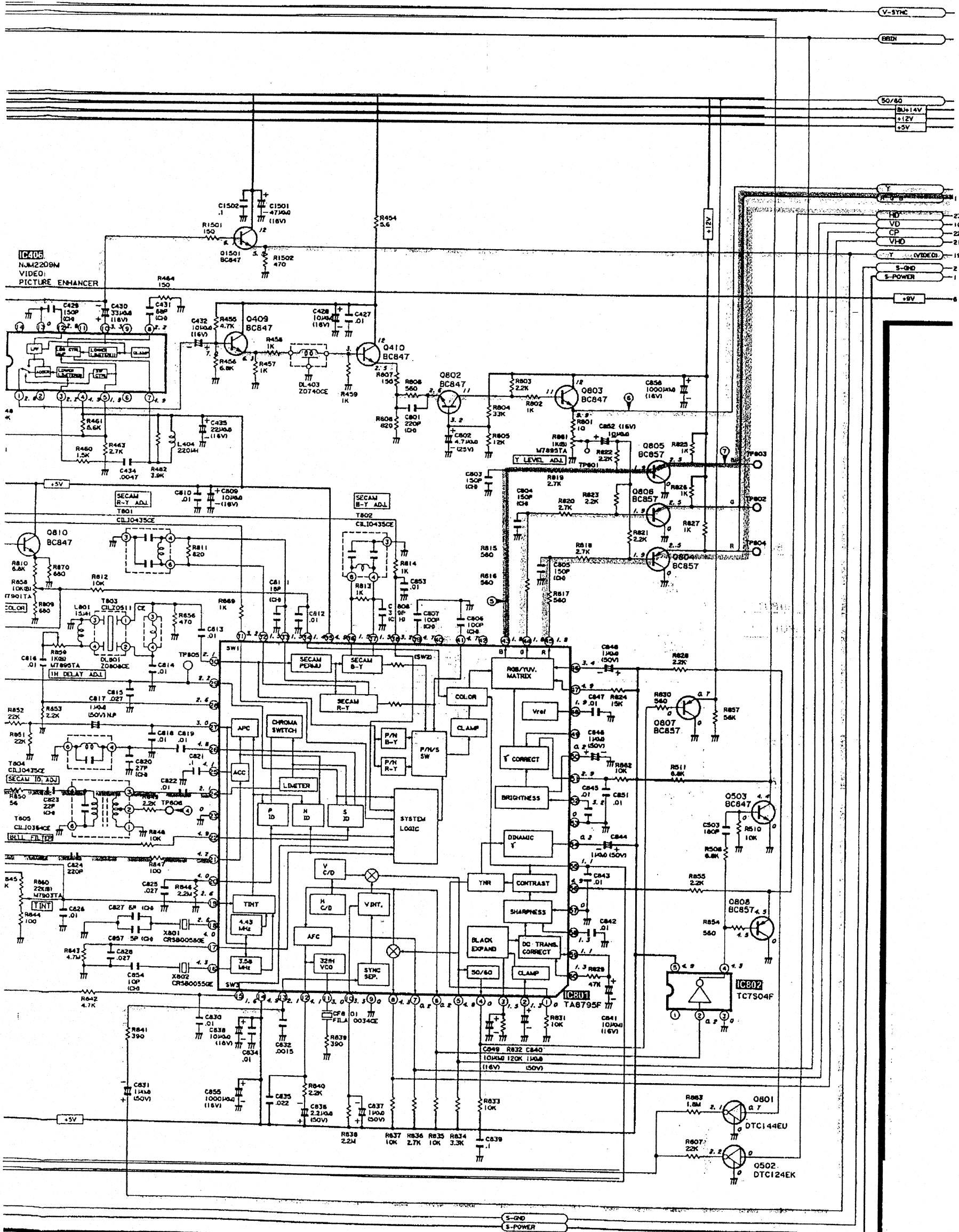
MAIN UNIT-1 / HAUPT-EINHEIT-1

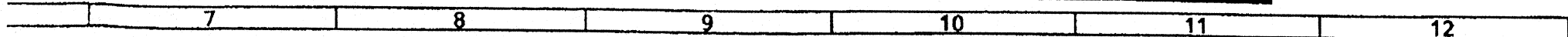
Video signal/Videosignal
R signal



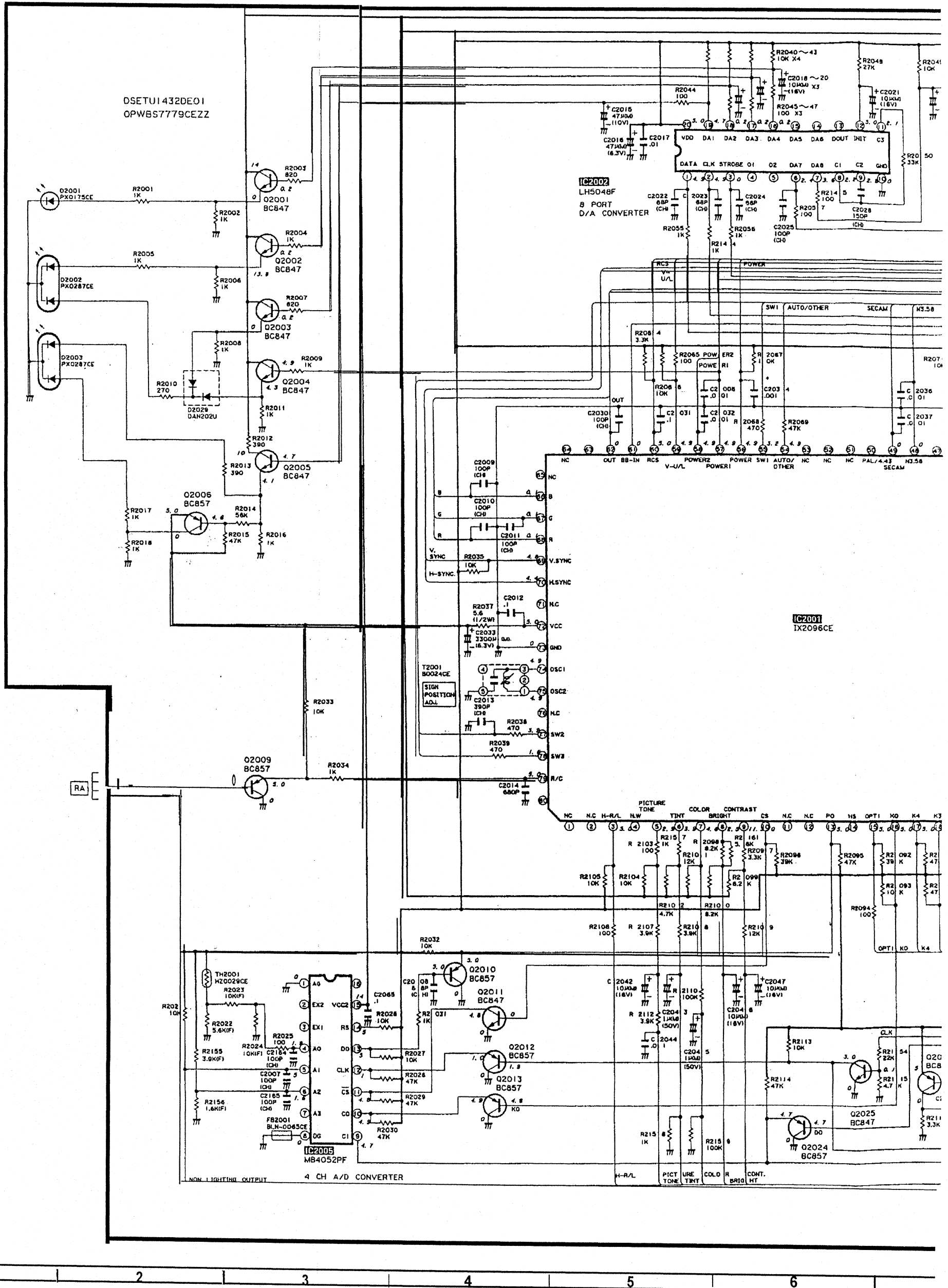
al
Luminance Signal/Luminanzsignal
G signal

Chrominance Signal/Chrominanzsignal
B signal





MAIN UNIT-3 / HAUPT-EINHEIT-3



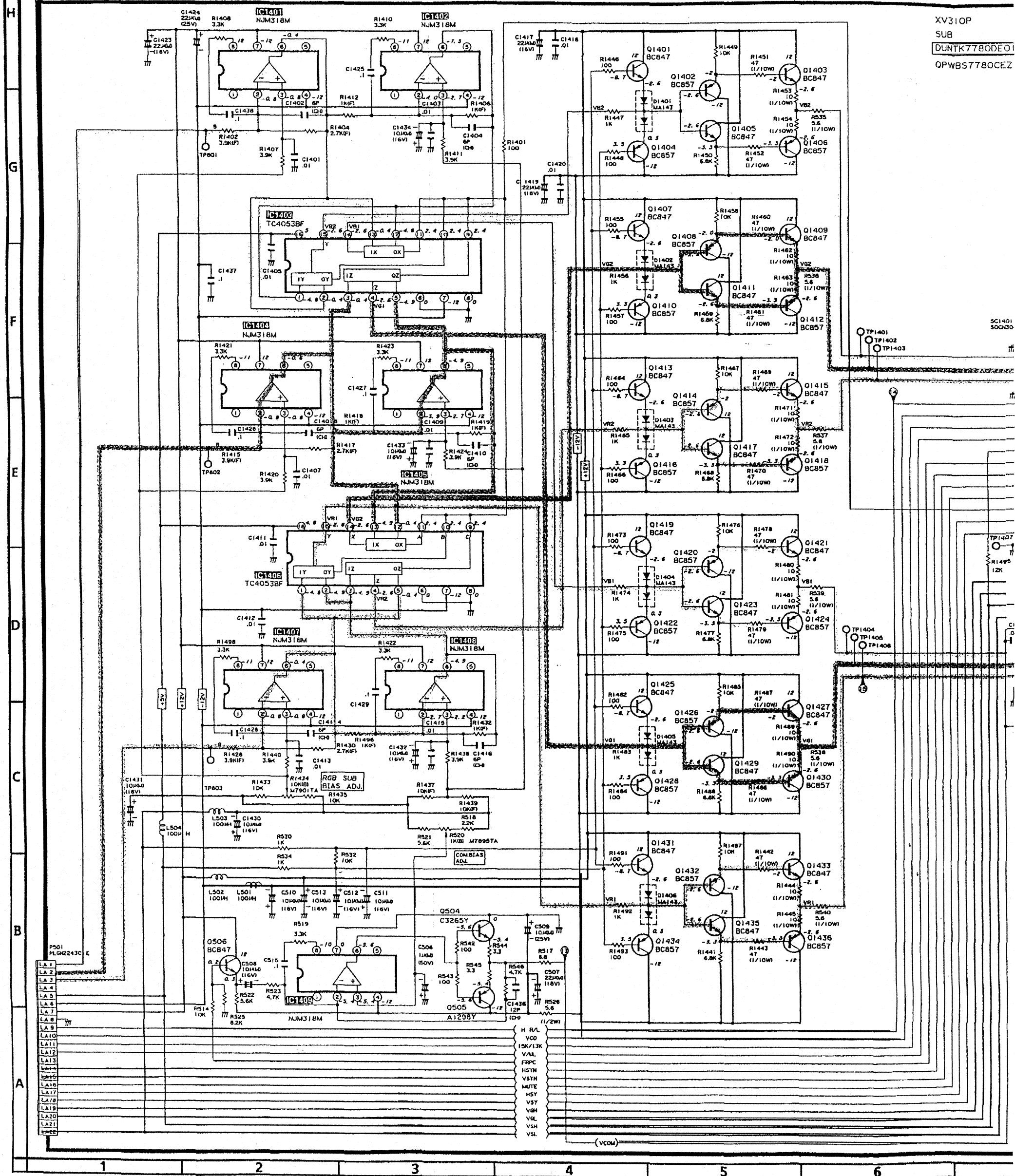


SUB UNIT / UNTER-EINHEIT

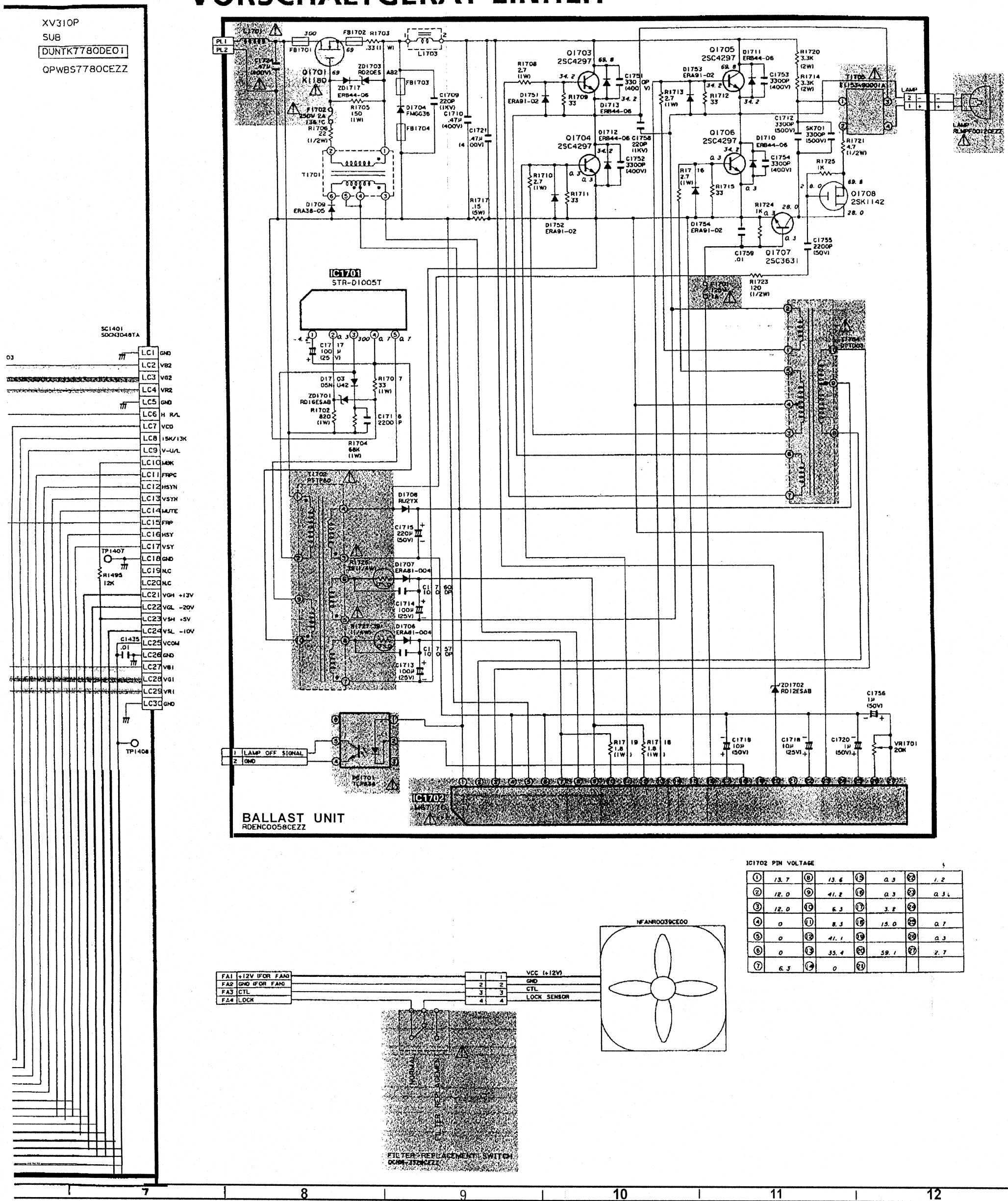
R signal

G signal

8 signal

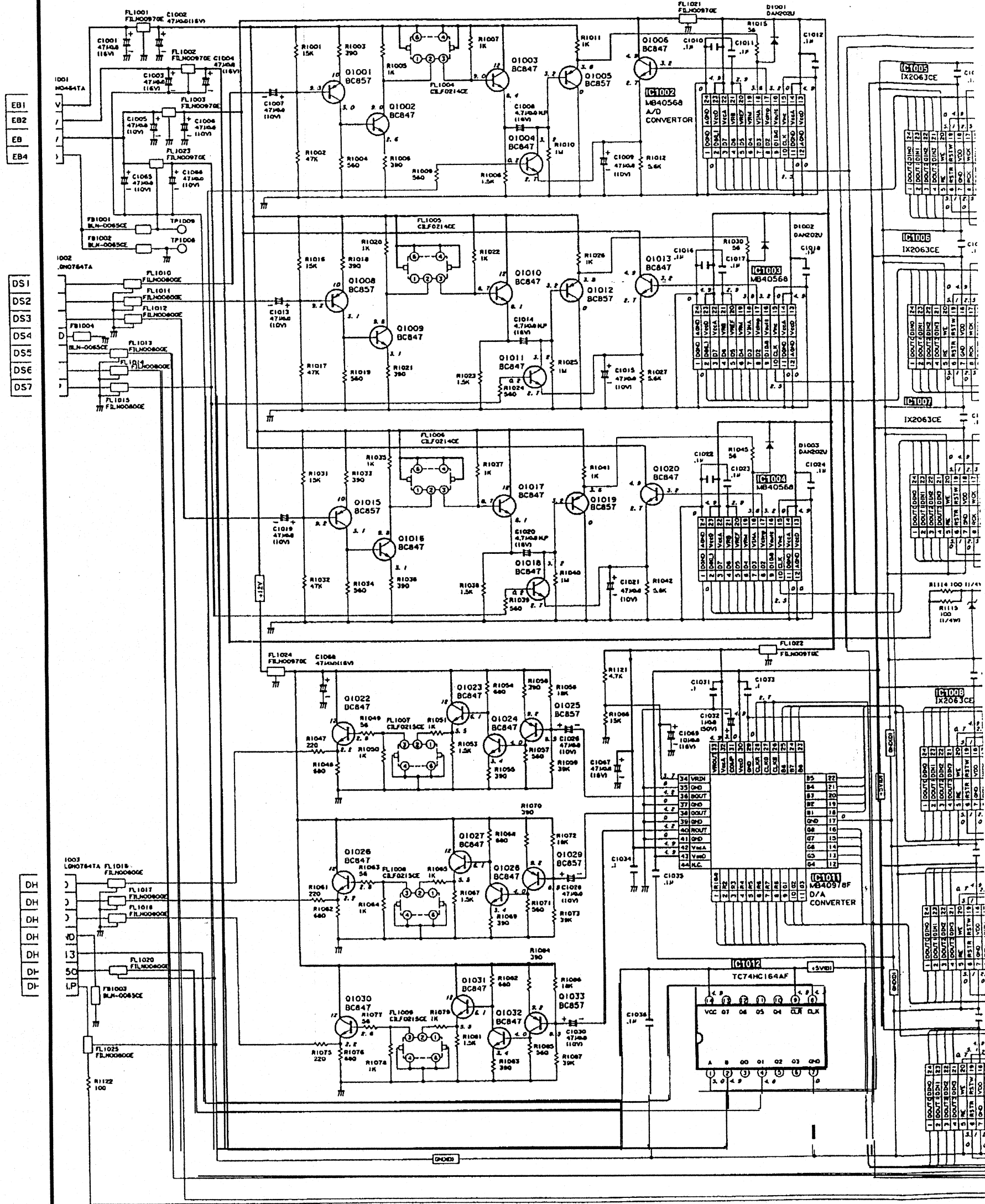


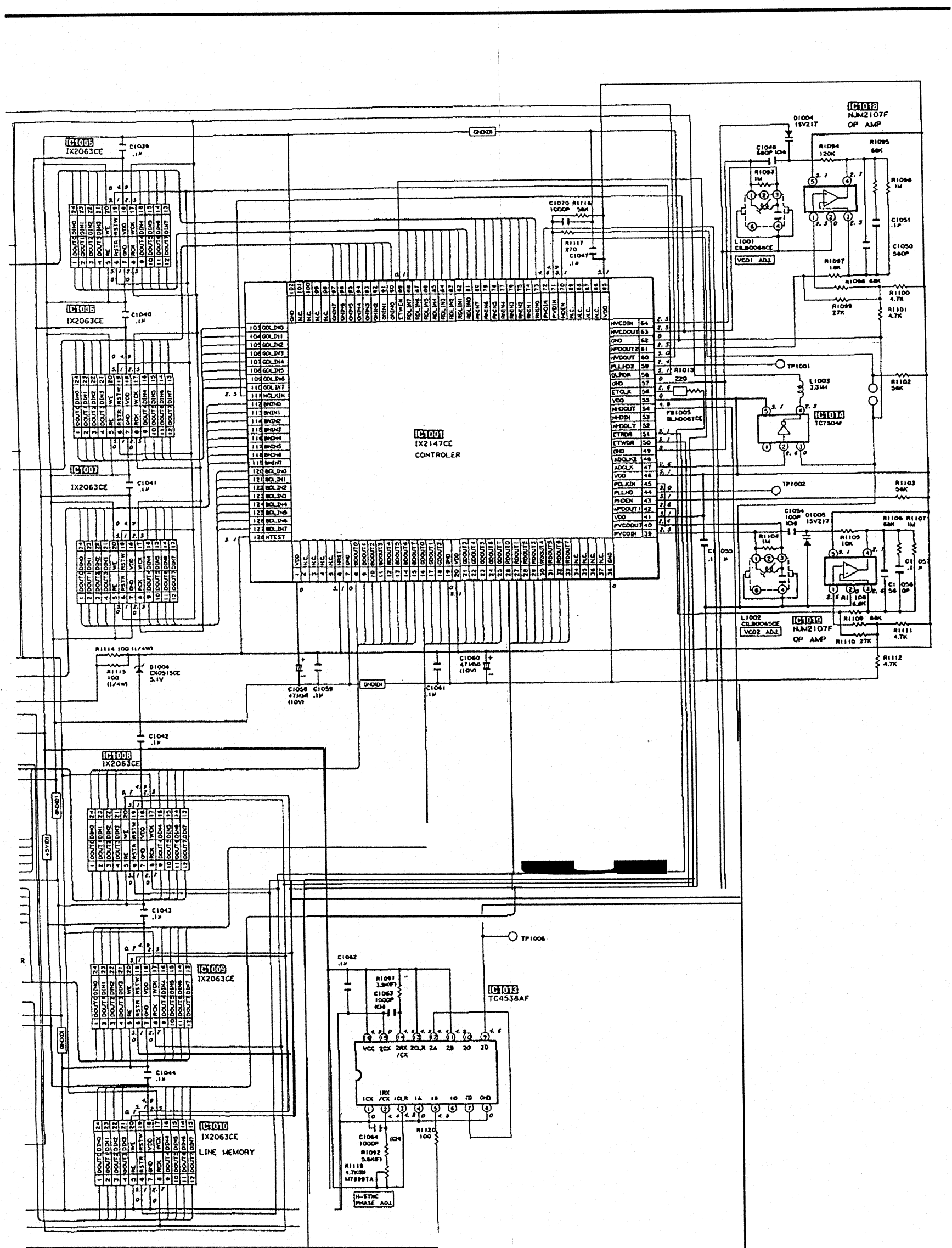
IBALLAST UNIT / VORSCHALTGERÄT-EINHEIT



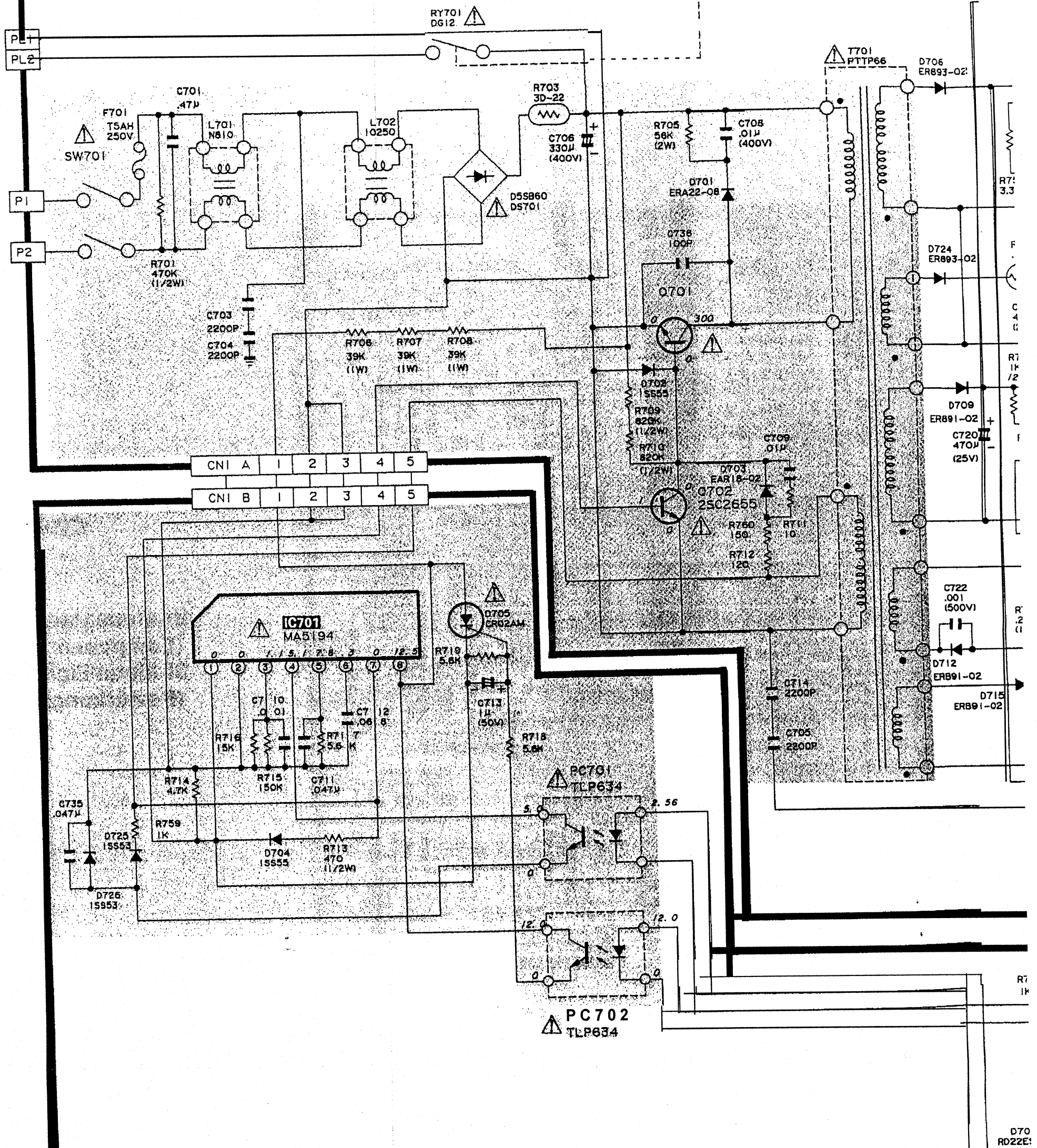
DIGITAL UNIT / DIGITAL-EINHEIT

DUNT7782DE01
OPWBS7779CEZZ

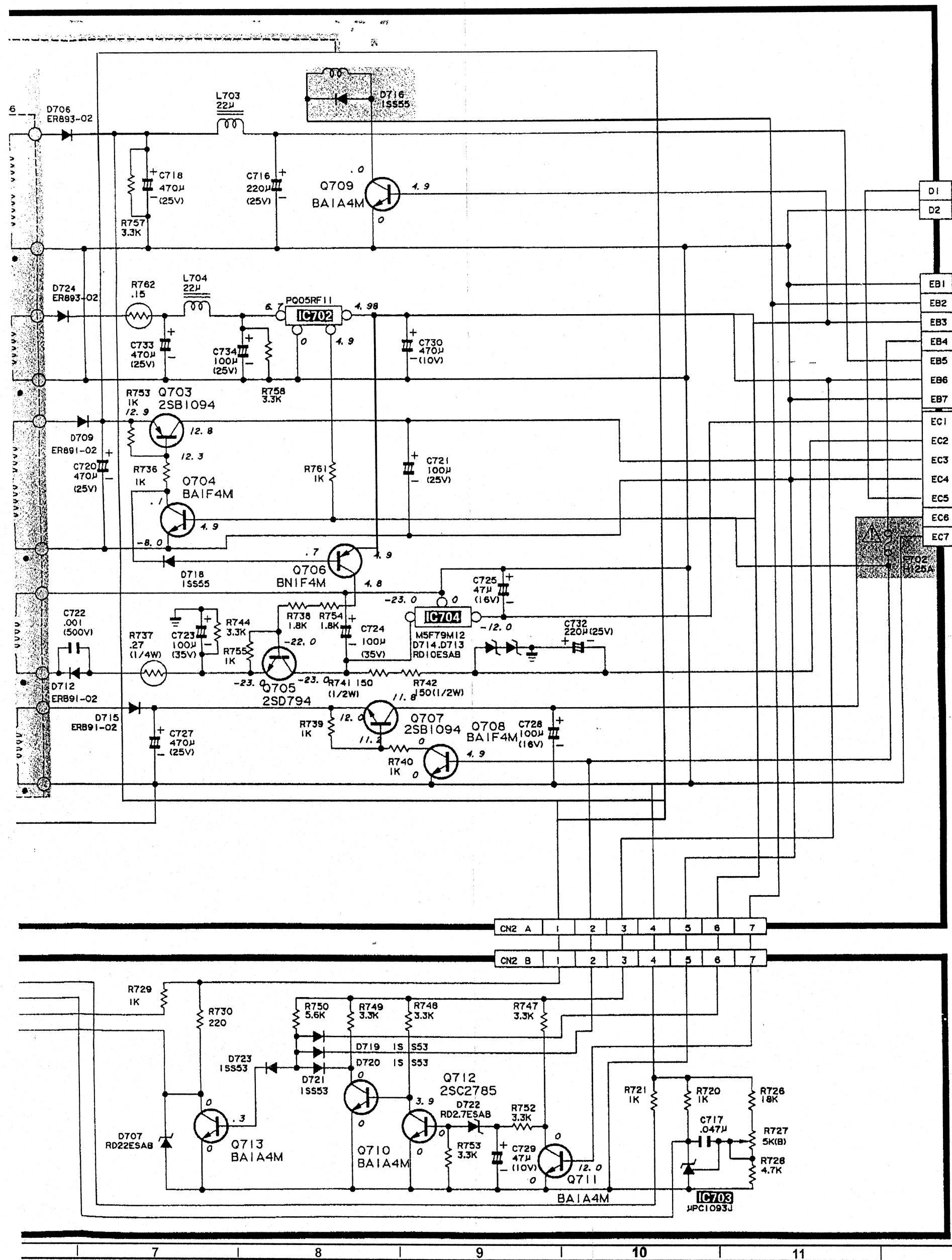




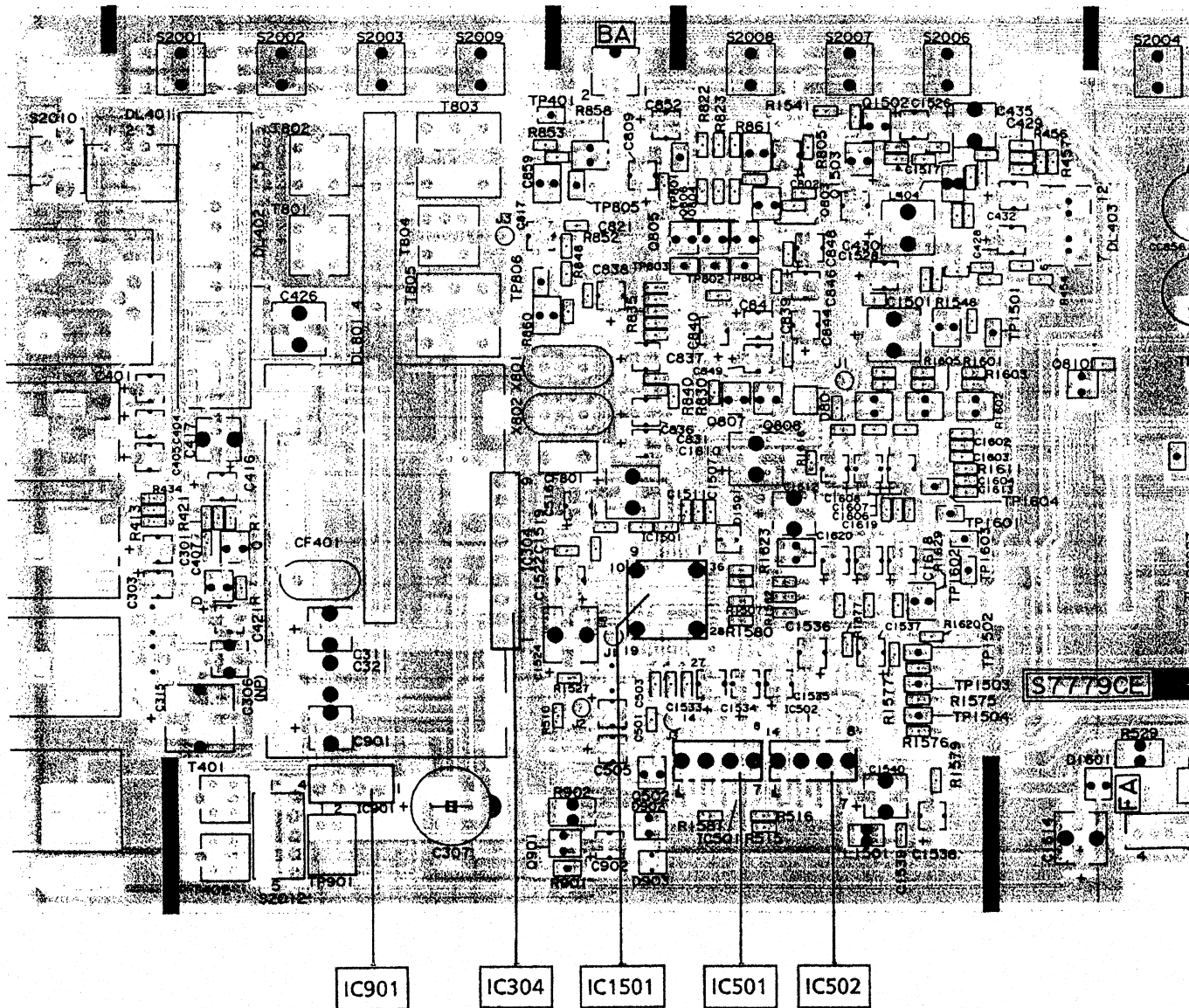
POWER UNIT / SPANNUNGSVERSORGUNGS-EINHEIT



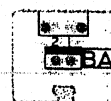
RDENC0057CEZZ



PRINTED WIRING BOARD ASSEMBLIES / LEITERPLATTENEINHEITEN



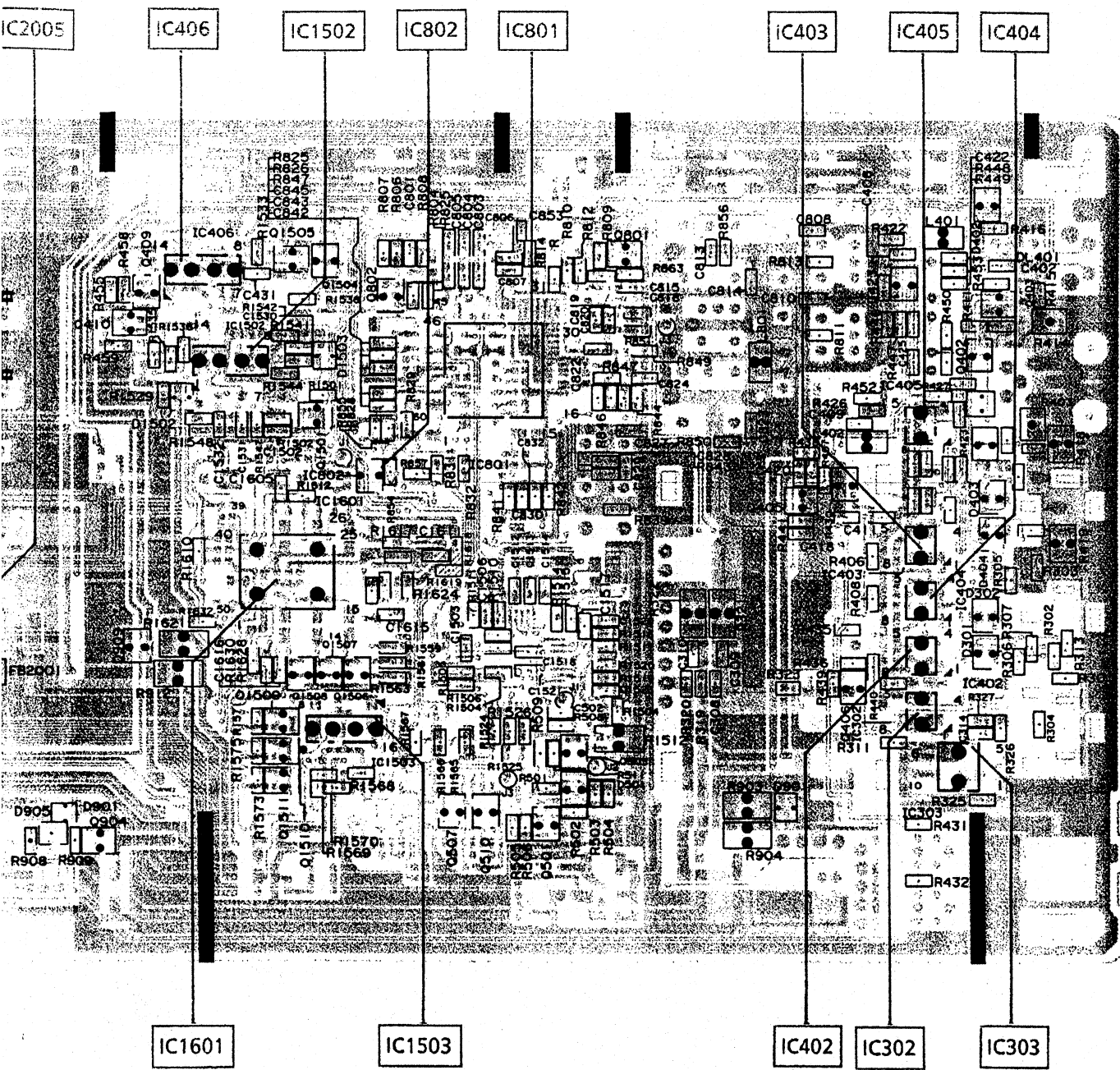
Main Unit (Component
Haupt-Einheit (Bestück



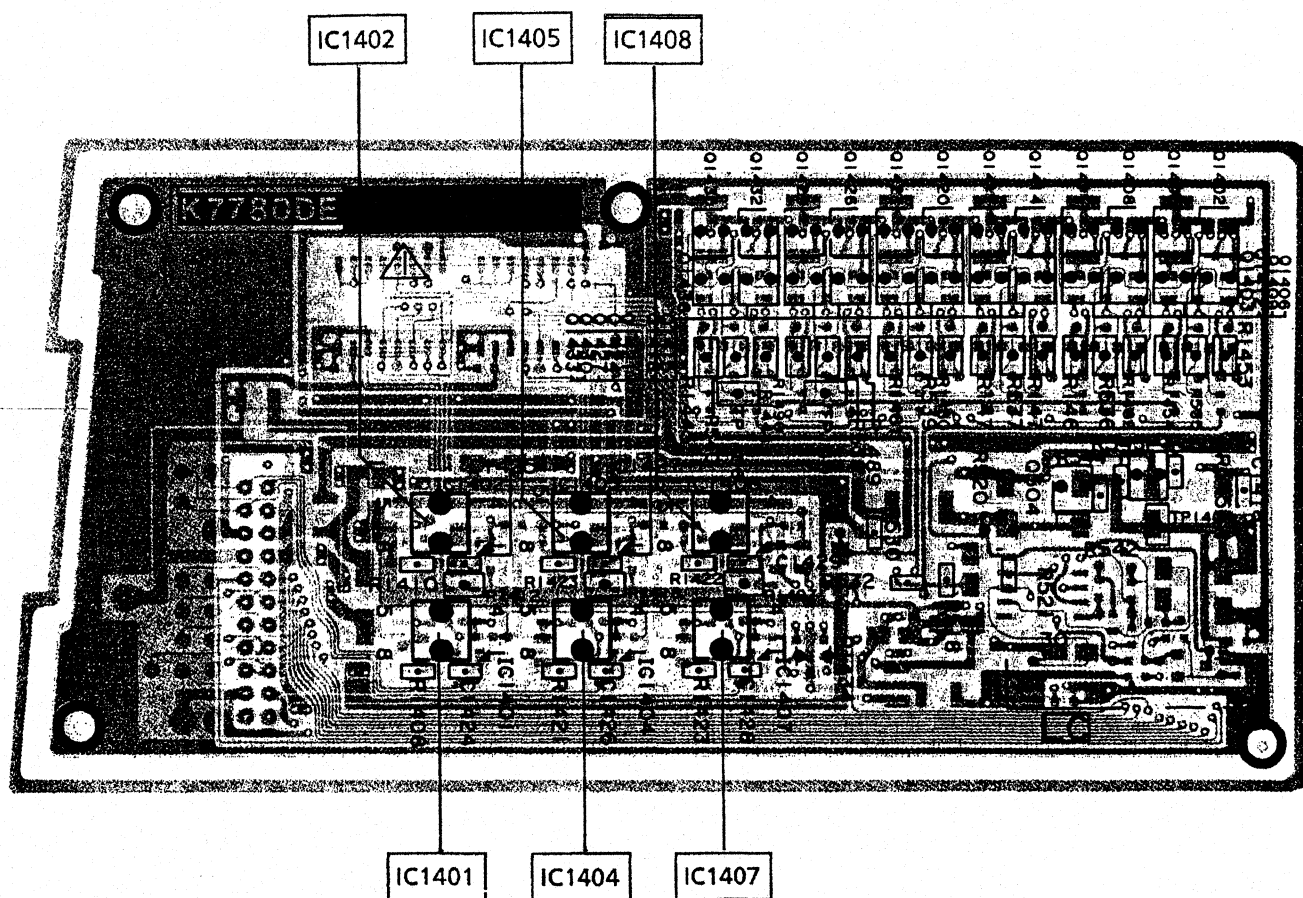
Bi-Metal Unit
(Component Side) /
Bi-Metal-Einheit
(Bestückungsseite)

**Component Side) /
eit (Bestückungsseite)**



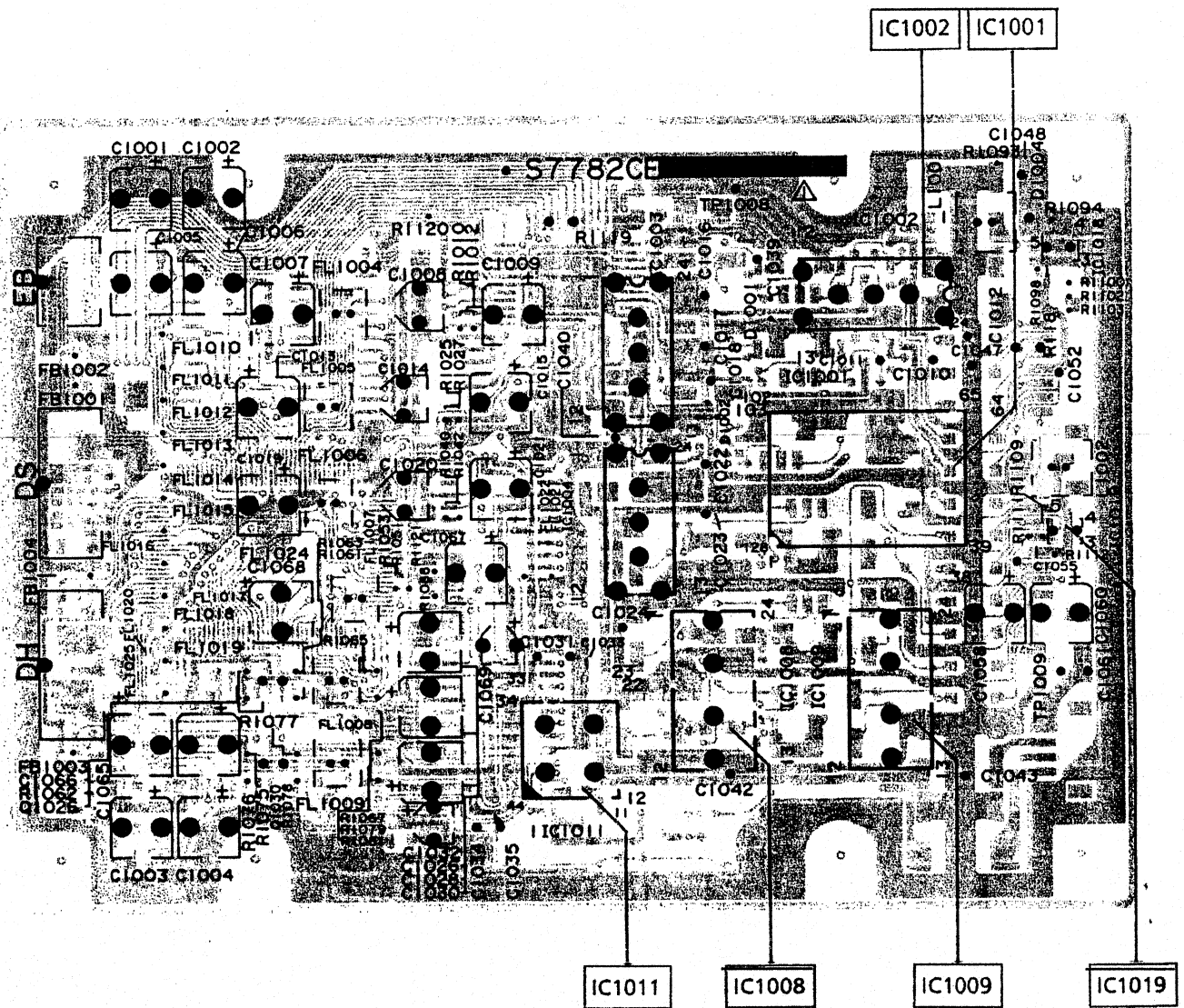


Main Unit (Wiring Side) /
Haupt-Einheit (Leiterbahnseite)



Sub Unit (Component Side) /
Unter-Einheit (Leiterbahnseite)

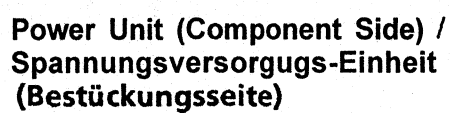
7 8 9 10 11 12

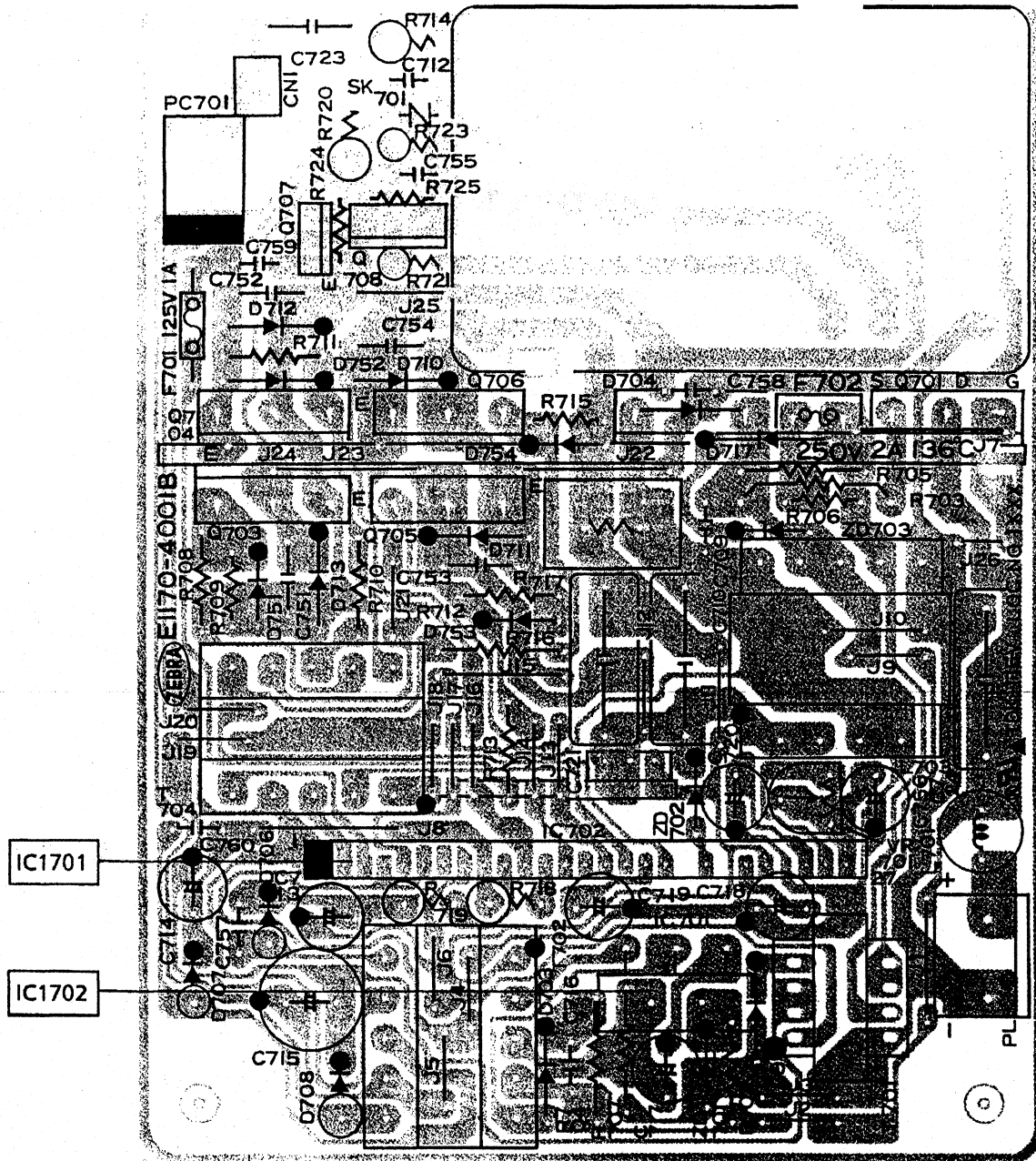


Digital Unit (Component Side) /
Digital-Einheit (Bestückungsseite)



**Digital Unit (Wiring Side) /
Digital-Einheit (Leiterbahnseite)**





**Ballast Unit (Component Side) /
Vorschaltgerät-Einheit (Bestückungsseite)**

NOTE:

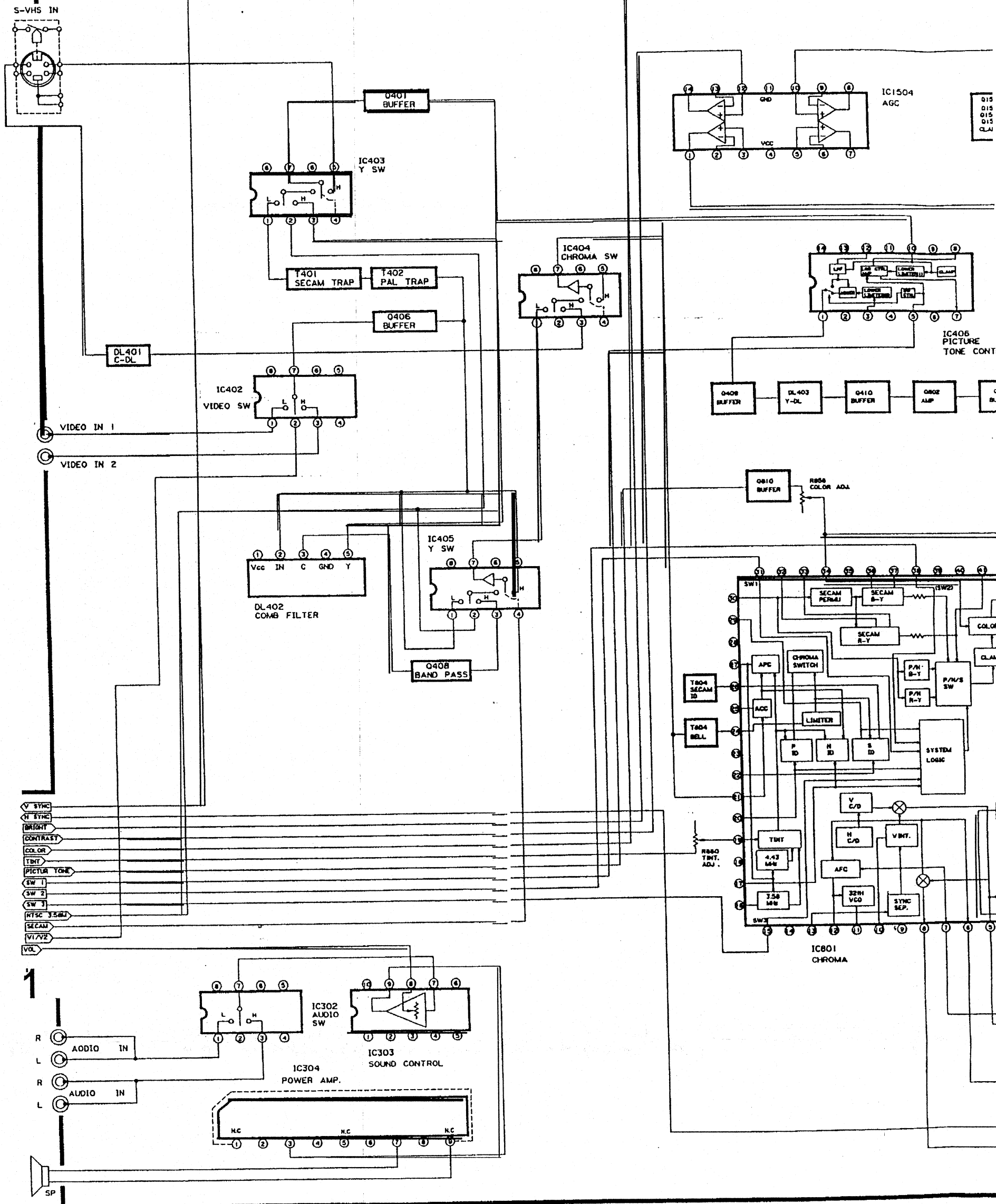
The reference number of the ballast unit is of 4 digits of 1 x x x. The numbering on the PWB is given in 3 digits of 7 x x.

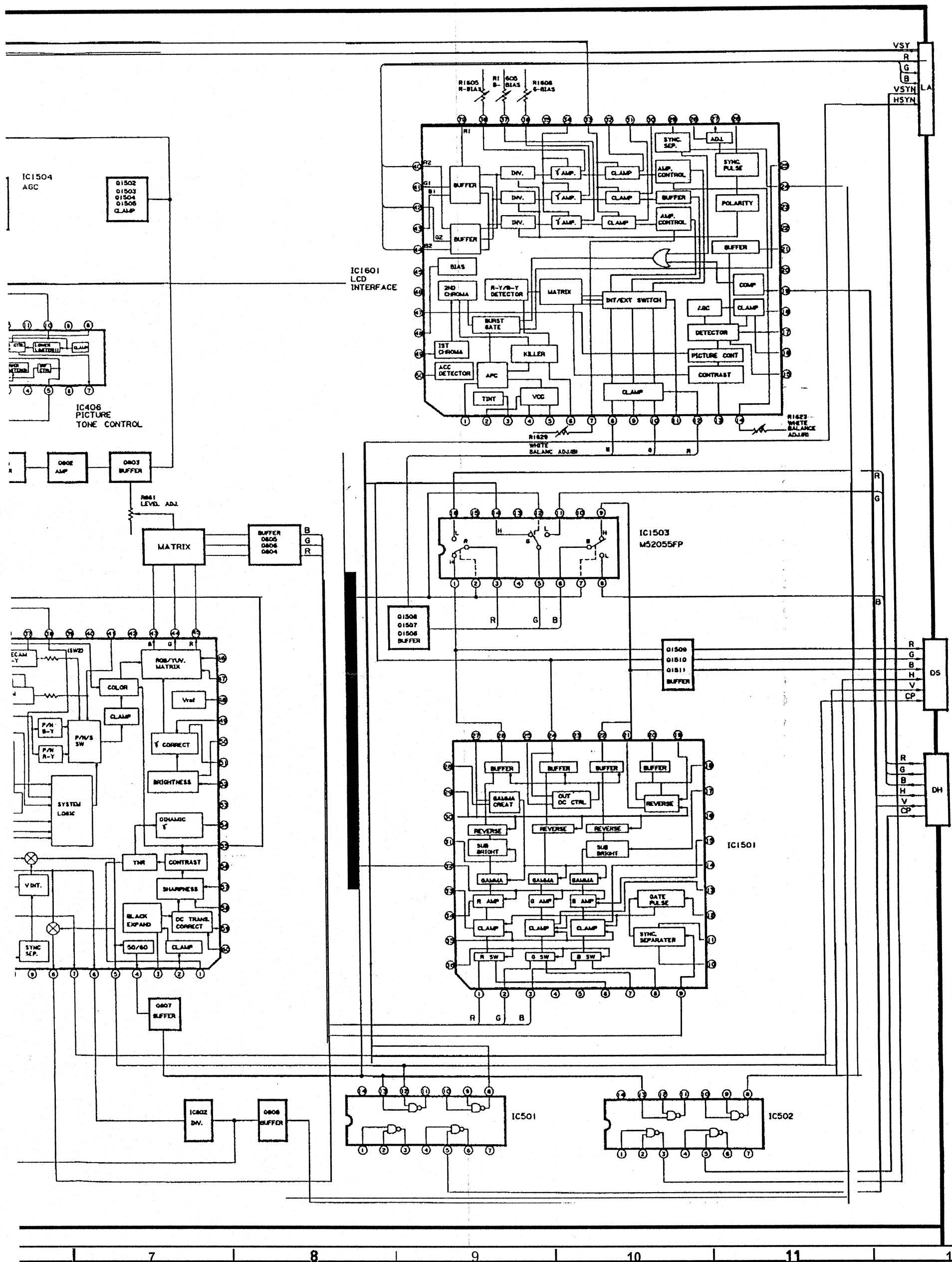
NOTE:

Die Bezugsnummern für die Ballasteinheit werden in 4stelligen Nummern angegeben, welche alle mit einer 1 beginnen. Die Platinen sind mit 3stelligen Nummern versehen, die mit 7 beginnen.

BLOCK DIAGRAM-1/ BLOCKSCHALTPLAN-1

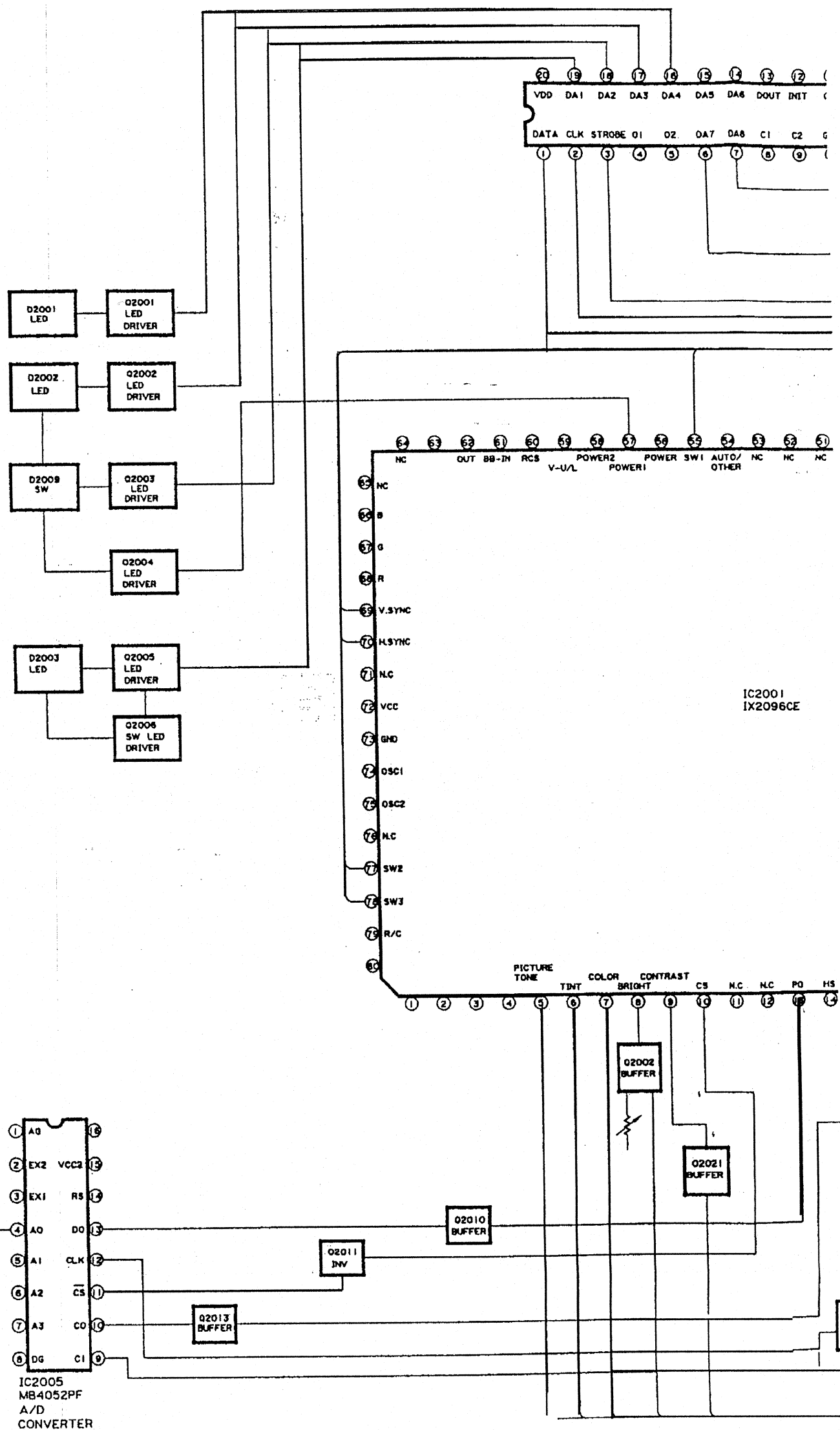
MAIN UNIT

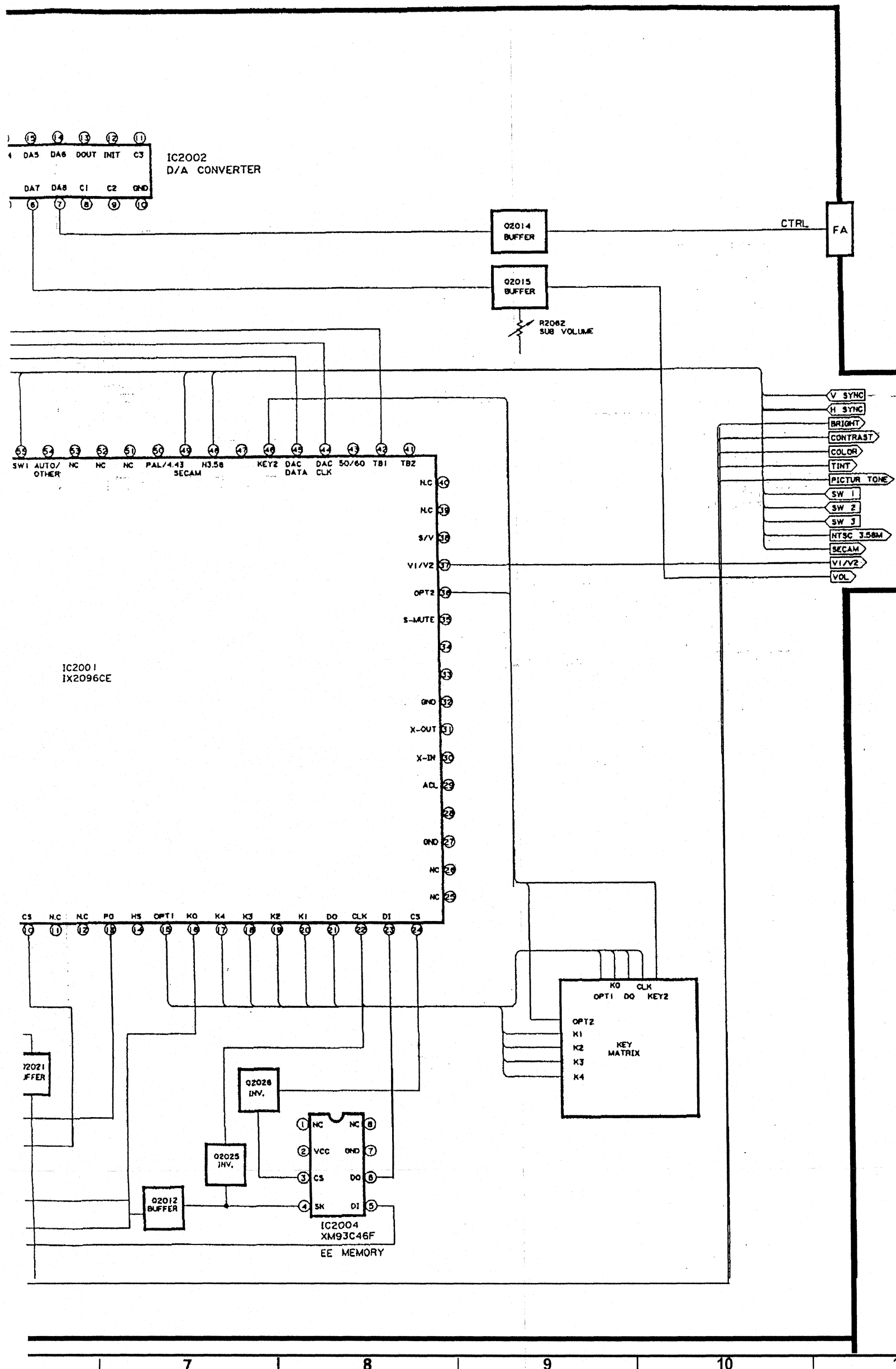




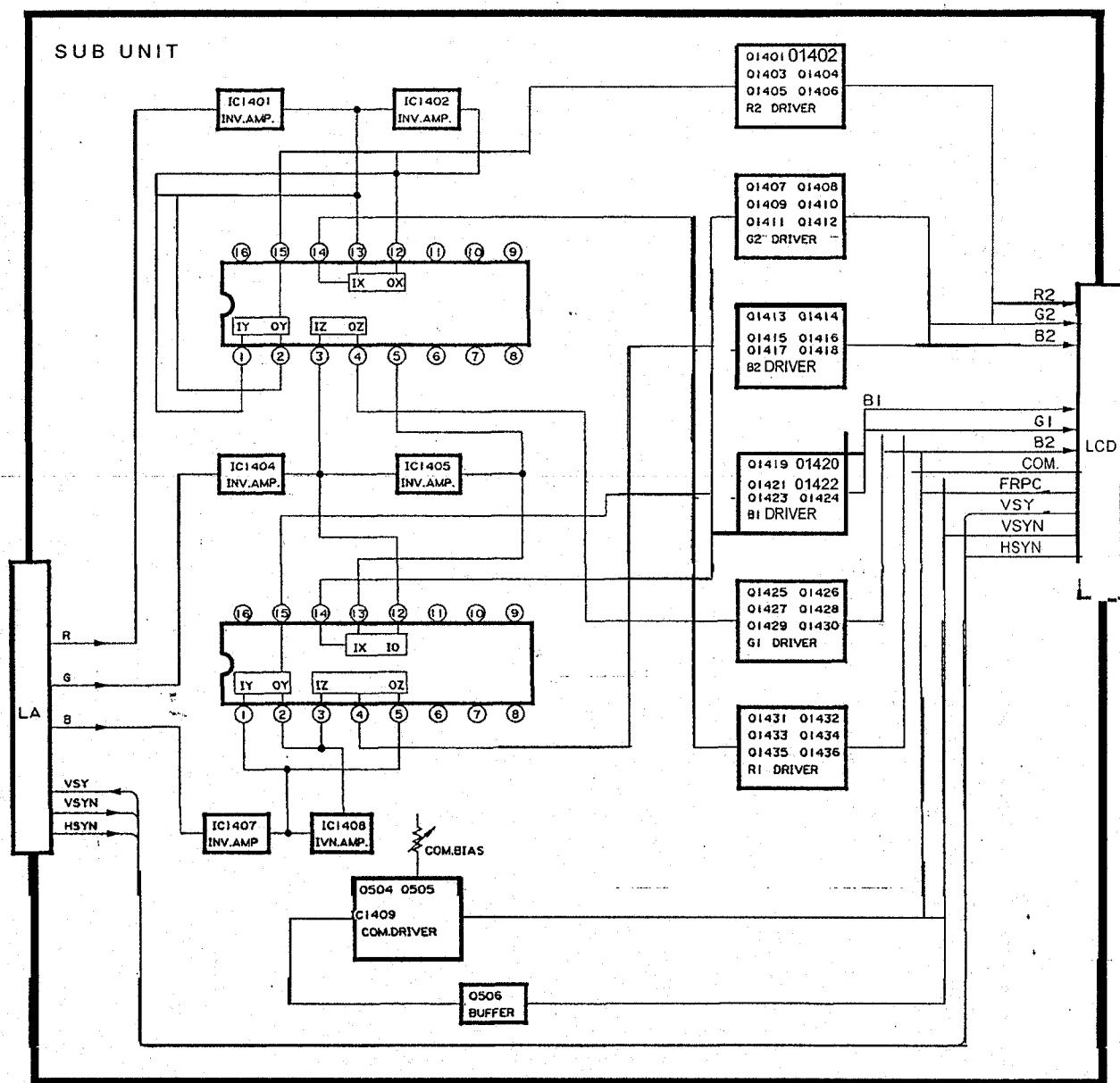
BLOCK DIAGRAM-2 / BLOCKSCHALTPLAN-2

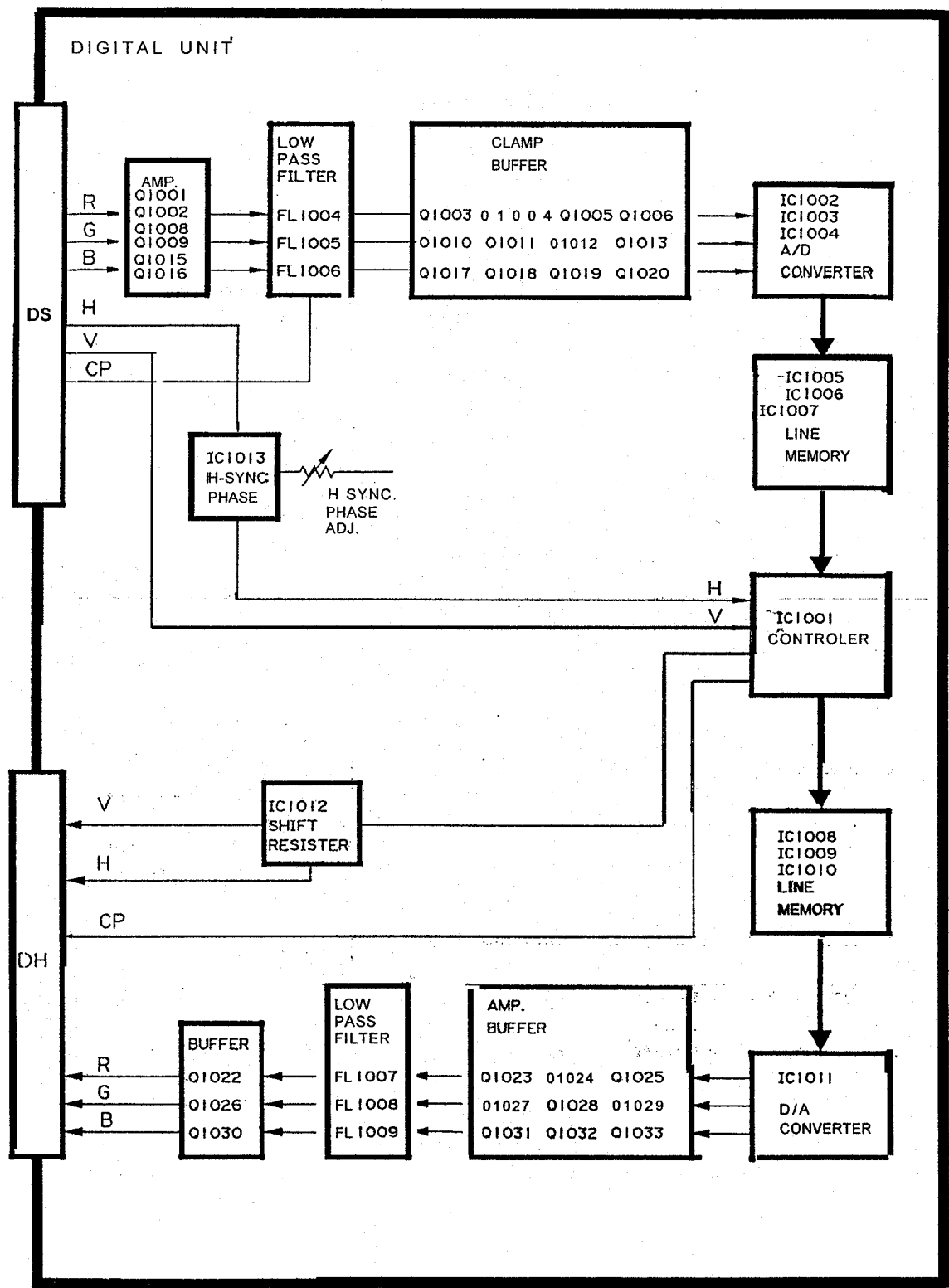
MAIN UNIT





BLOCK DIAGRAM-3/ BLOCKSCHALTPLAN-3

H
G
F
E
D
C
B
A



PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "△" in the Replacement Parts Lists. The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |
| 5. CODE | 6. QUANTITY |

MARK *: SPARE PARTS-DELIVERY SECTION

ERSATZTEILLISTE

AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschaften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenschaften sind in den Ersatzteil durch "△" gekennzeichnet.

Der Gebrauch von Ersatzteilen, die nicht dieselben Sicherheitseigenschaften haben wie die vom Hersteller empfohlenen und in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

"WIE MAN ERSATZTEILE BESTELLT"

Damit Ihre Bestellung prompt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

- | | |
|-------------------|-----------------|
| 1. MODELL NR. | 2. REF. NR. |
| 3. ERSATZTEIL NR. | 4. BESCHREIBUNG |
| 5. KODE | 6. QUANTITÄT |

MARKIERUNG *: ERSATZTEILE-LIEFERUNG

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
----------	----------	---	-------------	------	----------	----------	---	-------------	------

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

- | | |
|--|---|
| DSETU1432DE01 - Main Unit | — |
| DUNT7780DE01 - Sub Unit | — |
| DUNT7781DE01 - Bimetal Unit | — |
| DUNT7782DE01 - Digital Unit | — |
| CDENC0073CE01 - Power/Ballast Unit Ass'y | — |
| RDENC0057CEZZ - Power Unit | — |
| RDENC0058CEZZ - Ballast Unit | — |

— End of PWB ASS'Y —

ASSEMBLY UNITS

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

- | | |
|---------------------------------|----|
| RUNT00353CEZZ J LCD Module Unit | ** |
|---------------------------------|----|

— End of LED UNIT —

DSETU1432DE01

MAIN UNIT

INTEGRATED CIRCUITS

- | | |
|-----------------------------------|----|
| IC302 VHINJ2233BM-1 J | AE |
| IC303 VHIMS282FP-1 J MS282FP | AH |
| IC304 VHITDA7056/-1 J TDA7056 | AP |
| IC402 VHINJ2233BM-1 J NJ2233BM | AE |
| IC403 VHINJM2234M-1 J NJM2234M | AF |
| IC404 VHINJM2245M-1 J | AF |
| IC405 VHINJM2245M-1 J | AF |
| IC406 VHINJM2209M-1 J NJM2209M | AG |
| IC801 VHITA8795F/-1 J TA8795AF | AZ |
| IC802 VHITC7504FA-1 J TC7504F | AC |
| IC901 RH-IX1843CEZZ J PQ12RF1 | AF |
| IC1501 RH-IX1924CEZZ J IR3P89 | AP |
| IC1502 VHISNHC00NS-1J SNHCOONS | AC |
| IC1503 VHIMS2055FP-1 J MS2055FP | AH |
| ICI 604 VHINJM2060M-1 J NJM2060M | AE |
| IC1601 RH-IX1052CEZZ J MS1406FP | AW |
| IC2001 RH-IX2096CEZZ J | BA |
| IC2002 VHILH5048F/-1 J LH5048N | AK |
| IC2004 VHIXM93C46F-1 J XRM93C46AF | AH |
| IC2005 VHIM84052PF-1 J MB4052PF | AP |
| IC2006 RH-IX1069CEZZ J MS1943AML | AE |

TRANSISTORS

- | | |
|--------------------------------|----|
| Q401 VSBC847B1 F/-1 J BC847B1F | AA |
| Q402 VSDTC124EK/-1 J DTC124EK | AB |
| Q403 VSBC857B3F/-1 J BC857B3F | AA |
| Q405 VSBC847B1 F/-1 J BC847B1F | AA |
| Q406 VSBC847B1 F/-1 J BC847B1F | AA |
| Q408 VSBC847B1 F/-1 J BC847B1F | AA |
| Q409 VSBC847B1 F/-1 J BC847B1F | AA |

DSETU1432DE01 MAIN UNIT (Continued)

TRANSISTORS (Continued)

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| Q410 VSBC847B1 F/-1 J BC847B1F | AA |
| Q412 VSBC847B1 F/-1 J BC847B1F | AA |
| Q501 VSBC847B1 F/-1 J BC847B1F | AA |
| Q510 VSDTC124EK/-1 J DTC124EK | AB |
| Q801 VSDTC144EU/-1 J DTC144EU | AB |
| Q802 VSBC847B1 F/-1 J BC847B1F | AA |
| Q803 VSBC847B1 F/-1 J BC847B1F | AA |
| Q804 VSBC857B3F/-1 J BC857B3F | AA |
| Q805 VSBC857B3F/-1 J BC857B3F | AA |
| Q806 VSBC857B3F/-1 J BC857B3F | AA |
| Q807 VSBC857B3F/-1 J BC857B3F | AA |
| Q808 VSBC857B3F/-1 J BC857B3F | AA |
| Q810 VSBC847B1 F/-1 J BC847B1F | AA |
| Q901 VSBC847B1 F/-1 J BC847B1F | AA |
| Q902 VSDTC124EK/-1 J DTC124EK | AB |
| Q903 VSBC857B3F/-1 J BC857B3F | AA |
| Q904 VSDTC124EK/-1 J DTC124EK | AB |
| Q1501 VSBC847B1 F/-1 J BC847B1F | AA |
| Q1502 VSBC847B1 F/-1 J BC847B1F | AA |
| 41503 VSBC847B1 F/-1 J BC847B1F | AA |
| Q1504 VSIMX2111/-1 J | AB |
| Q1505 VSBC847B1 F/-1 J BC847B1F | AA |
| Q1506 VSBC857B3F/-1 J BC857B3F | AA |
| 41507 VSBC857B3F/-1 J BC857B3F | AA |
| Q1508 VSBC857B3F/-1 J BC857B3F | AA |
| Q1509 VSBC847B1 F/-1 J BC847B1F | AA |
| 41510 VSBC847B1 F/-1 J BC847B1F | AA |
| 41511 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2001 VSBC847B1 F/-1 J BC847B1F | AA |
| 42002 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2003 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2004 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2005 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2006 VSBC857B3F/-1 J BC857B3F | AA |
| Q2007 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2009 VSBC857B3F/-1 J BC857B3F | AA |
| 42010 VSBC857B3F/-1 J BC857B3F | AA |
| Q2011 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2012 VSBC857B3F/-1 J BC857B3F | AA |
| Q2013 VSBC857B3F/-1 J BC857B3F | AA |
| Q2014 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2015 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2017 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2018 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2019 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2020 VSBC847B1 F/-1 J BC847B1F | AA |
| 42021 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2022 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2024 VSBC857B3F/-1 J BC857B3F | AA |
| Q2025 VSBC847B1 F/-1 J BC847B1F | AA |
| Q2026 VSBC857B3F/-1 J BC857B3F | AA |

DIODES

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|----------------------------------|----|
| D301 RH-EX0226CEZZ J ZenerDiode | AB |
| D302 RH-EX0226CEZZ J ZenerDiode | AB |
| D401 VHDDAN202U/-1 J | AA |
| D402 RH-EX0226CEZZ J ZenerDiode | AB |
| D403 RH-EX0226CEZZ J ZenerDiode | AB |
| D404 RH-EX0226CEZZ J ZenerDiode | AB |
| D407 VHDDAN202U/-1 J | AA |
| D461 RH-EX0226CEZZ J ZenerDiode | AB |
| D601 VHDMA152WA/-1 J | AA |
| D602 RH-EX0623CEZZ J ZenerDiode | AB |
| D603 RH-EX0623CEZZ J ZenerDiode | AB |
| D901 VHDDAN202U/-1 J | AA |
| D902 RH-EX0623CEZZ J ZenerDiode | AB |
| D903 VHDDAN202U/-1 J | AA |
| D904 RH-EX0623CEZZ J ZenerDiode | AB |
| D905 VHDDAN202U/-1 J | AA |
| D906 RH-EX0227CEZZ J ZenerDiode | AB |
| D907 VHDDAN202U/-1 J | AA |
| D908 RH-EX0631CEZZ J ZenerDiode | AB |
| D909 RH-EX0624CEZZ J ZenerDiode | AB |
| D1601 VHDDAN202U/-1 J | AA |
| D1502 VHDDAN202U/-1 J | AA |
| D1503 VHDDAN202U/-1 J | AA |
| D1601 RH-EX0625CEZZ J ZenerDiode | AB |
| D2004 VHDMA143111/-1 J | AB |
| D2005 VHDMA143111/-1 J | AB |
| D2006 VHDMA143111/-1 J | AB |
| D2007 VHDDAN202U/-1 J | AA |
| D2008 VHDDAN202U/-1 J | AA |
| D2009 RH-EX0225CEZZ J ZenerDiode | AB |
| D2010 VHDDAN202U/-1 J | AA |
| D2012 VHDMA143111/-1 J | AB |
| D2013 VHDMA143111/-1 J | AB |
| D2014 VHDMA143111/-1 J | AB |
| D2015 VHDMA143111/-1 J | AB |
| D2016 VHDMA143111/-1 J | AB |
| D2017 VHDMA143111/-1 J | AB |
| D2018 VHDDAN202U/-1 J | AA |
| D2019 VHDDAN202U/-1 J | AA |
| D2020 VHDDAN202U/-1 J | AA |
| D2022 VHDMA143111/-1 J | AB |
| D2023 VHDDAN202U/-1 J | AA |
| D2024 VHDDAN202U/-1 J | AA |
| D2025 VHDMA143111/-1 J | AB |
| D2026 VHDMA143111/-1 J | AB |
| Q2027 VHDMA143111/-1 J | AB |
| D2028 VHDDAN202U/-1 J | AA |
| D2029 VHDDAN202U/-1 J | AA |
| D2030 VHDDAN202U/-1 J | AA |
| D2031 VHDDAN202U/-1 J | AA |
| D2032 VHDDAN202U/-1 J | AA |
| D2033 VHDDAN202U/-1 J | AA |
| TH2001RH-HZ0029CEZZ J Thermistor | AE |

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DSETU1432DE01					CAPACITORS				
MAIN UNIT (Continued)					C301	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
PACKAGED CIRCUITS					C303	VCEAPH1CW106M J 10	16V	Electrolytic AB	
X801	RCRS80058GEZZJ		Crystal	AH	C305	VCE9PF1CW106M J 10	16V	Elect. (N.P) AC	
X802	RCRS80055GEZZJ		Crystal	AH	C307	VCEAGA1EW477M J 470	25V	Electrolytic AD	
COILS AND TRANSFORMERS					C308	VCKYCY1H8272K J 2700p50V		Ceramic AA	
CF401	RFILC0286CEZZ J		Ceramic Filter	AE	C309	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
CF801	RFILA0034CEZZ J		Ceramic Filter	AD	C310	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
CF2001	RFILC0034TAZZ J		Ceramic Filter	AD	C311	VCEAPF1CW226M J 2 2	16V	Electrolytic AB	
DL401	RCILZ0585CEZZ J		Delay Line	AE	c315	VCEAGA1CW107M J 100	16V	Electrolytic AB	
DL402	RCILZ0820CEZZ J		Delay Line	AT	C401	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
DL403	RCILZ0740CEZZ J		Delay Line	AH	C402	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
DL801	RCILZ0808CEZZ J		Delay Line	AR	C404	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
L401	V P - I M270K3R8N J		Peaking Coil, 27 μ H	AC	C405	VCEAPH1CW106M J 10	16V	Electrolytic AB	
L402	V P - I M180K2R5N J		Peaking Coil, 18 μ H	AC	C407	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
L404	V P - I M221K170N J		Peaking Coil, 220 μ H	AC	C408	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
L801	V P - I M150K2R2N J		Peaking Coil, 15 μ H	AC	C409	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
L901	V P - I M220K2R9N J		Peaking Coil, 22 μ H	AC	C410	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
L902	V P - I M220K2R9N J		Peaking Coil, 22 μ H	AC	C411	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
L1501	V P - I M101K7R7N J		Peaking Coil, 100 μ H	AC	C412	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
T401	RCIL10520CEZZ J		IF Coil	AE	C413	VCCCCY1HH220J J 22p	50V	Ceramic AA	
T402	RCIL10511CEZZ J		IF Coil	AE	c414	VCCCCY1HH470J J 47p	50V	Ceramic AA	
T801	RCIL10435CEZZ J		IF Coil	AE	C416	VCEAPH1CW106M J 10	16V	Electrolytic AB	
T802	RCIL10435CEZZ J		IF Coil	AE	C417	VCEAPF1CW226M J 2 2	16V	Electrolytic AB	
T803	RCILZ0511CEZZ J		Coil	AD	C418	VCCCCY1HH470J J 47p	50V	Ceramic AA	
T804	RCIL10435CEZZ J		IF Coil	AE	C420	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
T805	RCIL10364CEZZ J		IF Coil	AD	C421	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
T2001	RCIL80024CEZZ J		Oscillation Coil	AD	C422	VCCCCY1HH150J J 15p	50V	Ceramic AA	
CONTROLS					C423	VCCCCY1HH470J J 47p	50V	Ceramic AA	
R858	RVR-M7901TAZZ J 10k(B)		Colour	AC	C424	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
R859	RVR-M7895TAZZ J 1k(B) 1H		Delay	AC	C425	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
R860	RVR-M7903TAZZ J 22k(B)		Tint	AC	C426	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
R861	RVR-M7895TAZZ J 1k(B)		Y Level	AC	C427	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
R1546	RVR-M7898TAZZ J 3.3k(B)		A G C	AC	C428	VCEAPH1CW106M J 10	16V	Electrolytic AB	
R1602	RVR-M7901TAZZ J 10k(B)		Sub Bias (R)	AC	c429	VCCCCY1HH151J J 150p	50V	Ceramic AA	
R1605	RVR-M7901TAZZ J 10k(B)		Sub Bias (B)	AC	C430	VCEAPF1CW336M J 3 3	16V	Electrolytic AB	
R1608	RVR-M7901TAZZ J 10k(B)		Sub Bias (G)	AC	c431	VCCCCY1HH680J J 68p	50V	Ceramic AA	
R1623	RVR-M7895TAZZ J 1k(B)		White Balance (R)	AC	C432	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
RI 629	RVR-M7895TAZZ J 1k(B)		White Balance (B)	AC	c434	VCKYCY1HB472K J 4700p50V		Ceramic AA	
R2082	RVR-M7898TAZZ J 3.3k(B)		Sub Volume	AC	c435	VCEAPF1CW226M J 2 2	16V	Electrolytic AB	
R2139	RVR-M7901TAZZ J 10k(B)		Sub Brightness	AC	C438	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
					c439	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
					C501	VCEAPH1HW225M J 2 2	50V	Electrolytic AB	
					C505	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
					c514	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
					C801	VCCCCY1HH221J J 220p	50V	Ceramic AA	
					C802	VCEAPH1EW475M J 4 7	25V	Electrolytic AB	
					C803	VCCCCY1HH220J J 22p	50V	Ceramic AA	
					C804	VCCCCY1HH220J J 22p	50V	Ceramic AA	
					C805	VCCCCY1HH220J J 22p	50V	Ceramic AA	
					C806	VCCCCY1HH101J J 100p	50V	Ceramic AA	
					C807	VCCCCY1HH101J J 100p	50V	Ceramic AA	
					C808	VCCCCY1HH390J J 39p	50V	Ceramic AA	
					C809	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
					C810	VCKYCY1EB103K J 0.01	25V	Ceramic AA	

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DSETU1432DE01					CAPACITORS (Continued)				
MAIN UNIT (Continued)					CI505	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
CAPACITORS (Continued)					CI506	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
C811	VCCCCY1HH180J J 18p		50V Ceramic	AA	CI507	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C812	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI508	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C813	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI509	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C814	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI510	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C815	VCKYTV1HF273Z J 0.027		50V Ceramic	AB	CI511	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
C816	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI512	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C817	VCE9PF1HW105M J 1		50V Elect. (N.P) AC		CI513	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C818	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI514	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C819	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI515	VCKYCY1HB222K J 2200p50V		Ceramic AA	
C820	VCCCCY1HH270J J 27p		50V Ceramic	AA	CI516	VCEAPH1HW105M J 1	50V	Electrolytic AB	
C821	VCKYCY1CF104Z J 0.1		16V Ceramic	AA	CI517	VCCCCY1HH151J J 150p	50V	Ceramic AA	
C822	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI518	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C823	VCCCCY1HH220J J 22p		50V Ceramic	AA	CI519	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C824	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI620	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
C825	VCKYTV1HF273Z J 0.027		50V Ceramic	AB	CI621	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C826	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI622	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
C828	VCKYTV1HF273Z J 0.027		50V Ceramic	AB	CI623	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
C830	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI624	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
C831	VCEAPH1HW105M J 1		50V Electrolytic AB		CI625	VCEAPH1HW104M J 0.1	50V	Electrolytic AB	
C832	VCKYCY1HB152K J 1500p50V		Ceramic AA		CI626	VCEAPH1CW106M J 10	16V	Electrolytic AB	
C834	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI628	VCEAPF1HW225M J 2 2	50V	Electrolytic AB	
C835	VCKYTV1EB223K J 0.022		25V Ceramic	AB	CI629	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C836	VCEAPH1HW225M J 2 2		50V Electrolytic AB		CI631	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
C837	VCEAPH1HW105M J 1		50V Electrolytic AB		CI632	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
C838	VCEAPH1CW106M J 1 0		16V Electrolytic AB		CI633	VCEAPH1CW106M J 10	16V	Electrolytic AB	
C839	VCKYCY1CF104Z J 0.1		16V Ceramic	AA	CI634	VCEAPH1CW106M J 10	16V	Electrolytic AB	
C840	VCEAPH1HW105M J 1		50V Electrolytic AB		CI635	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
C841	VCEAPH1CW106M J 1 0		16V Electrolytic AB		CI636	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
C842	VCCCCY1HH221J J 220p		50V Ceramic	AA	CI637	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
C843	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI638	VCEAPH1CW106M J 1 0	16V	Electrolytic AB	
C844	VCEAPH1HW105M J 1		50V Electrolytic AB		CI639	VCKYCY1EB103K J 0.01	25V	Ceramic AA	
C845	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI640	VCEAPF1CW226M J 2 2	16V	Electrolytic AB	
C846	VCEAPH1HW105M J 1		50V Electrolytic AB		CI641	VCCCCY1HH101J J 100p	50V	Ceramic AA	
C847	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI610	VCEAGA0JW107M J 100 6.3V		Electrolytic AB	
C848	VCEAPH1HW105M J 1		50V Electrolytic AB		CI611	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C849	VCEAPH1CW106M J 10		16V Electrolytic AB		CI612	VCEAPF1CW226M J 2 2	16V	Electrolytic AB	
C851	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI613	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C852	VCEAPH1CW106M J 1 0		16V Electrolytic AB		CI614	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
C853	VCKYCY1EB103K J 0.01		25V Ceramic	AA	CI615	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C854	VCCCCY1HH100D J 10p		50V Ceramic	AA	CI616	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C901	VCEAPF1CW226M J 2 2		16V Electrolytic AB		CI617	VCKYCY1CF104Z J 0.1	16V	Ceramic AA	
C902	VCEAPH1CW106M J 1 0		16V Electrolytic AB		CI618	VCEAPH1HW105M J 1	50V	Electrolytic AB	
C903	VCKYCY1CF104Z J 0.1		16V Ceramic	AA	CI619	VCEAPH1HW105M J 1	50V	Electrolytic AB	
C904	VCKYCY1CF104Z J 0.1		16V Ceramic	AA					
C905	VCKYTV1HF473Z J 0.047		50V Ceramic	AB					
C906	VCEAPF1CW226M J 2 2		16V Electrolytic AB						
C907	VCKYCY1EB103K J 0.01		25V Ceramic	AA					
CI 501	VCEAPF1CW476M J 4 7		16V Electrolytic AC						
CI 502	VCKYCY1CF104Z J 0.1		16V Ceramic	AA					
CI 503	VCKYCY1EB103K J 0.01		25V Ceramic	AA					
CI 504	VCKYCY1CF104Z J 0.1		16V Ceramic	AA					

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DSETU1432DE01 MAIN UNIT (Continued)					CAPACITORS (Continued)				
CAPACITORS (Continued)					C2155	VCCCCY1HH101JJ100p	50V	Ceramic AA	
C1620	VCEAPH1HW105M J 1		50V Electrolytic AB		C2156	VCCCCY1HH101JJ100p	50V	Ceramic AA	
C1622	VCKYCY1CF104ZJ 0.1		16V Ceramic AA		C2157	VCCCCY1HH101JJ100p	50V	Ceramic AA	
C2001	VCCCCY1HH330JJ33p		50V Ceramic AA		C2158	VCCCCY1HH101JJ100p	50V	Ceramic AA	
C2002	VCCCCY1HH680JJ68p		50V Ceramic AA		C2163	VCEAPH1CW106M J 10		16V Electrolytic AB	
C2007	VCCCCY1HH101JJ100p		50V Ceramic AA		RESISTORS				
C2009	VCCCCY1HH101JJ100p		50V Ceramic AA		R302	VR5-CY1JF563J J 56k	1/16W	Metal Oxide AA	
C2010	VCCCCY1HH101JJ100p		50V Ceramic AA		R306	VR5-CY1JF563JJ 56k	1/16W	Metal Oxide AA	
C2011	VCCCCY1HH101JJ100p		50V Ceramic AA		R307	VR5-CY1JF563JJ 56k	1/16W	Metal Oxide AA	
C2012	VCKYCY1CF104ZJ 0.1		16V Ceramic AA		R311	VR5-CY1JF102JJ 1k	1/16W	Metal Oxide AA	
C2013	VCCCCY1HH391JJ39p		50V Ceramic AA		R313	VR5-CY1JF563JJ 56k	1/16W	Metal Oxide AA	
C2014	VCKYCY1HB681 KJ680p		50V Ceramic AA		R319	VR5-CY1JF472JJ 4.7k	1/16W	Metal Oxide AA	
C2015	VCEAPH1AW476M J 4		7 10V Electrolytic AB		R320	VR5-CY1JF102JJ 1k	1/16W	Metal Oxide AA	
C2016	VCEAPH1CW106M J 10		16V Electrolytic AB		R321	VR5-TX2HF8R2J J 8.2	1/2W	Metal Oxide AA	
C2017	VCKYCY1EB103KJ 0.01		25V Ceramic AA		R322	VR5-TX2HF8R2J J 8.2	1/2W	Metal Oxide AA	
C2018	VCEAPH1CW106M J 10		16V Electrolytic AB		R323	VR5-CY1JF682J J 6.8k	1/16W	Metal Oxide AA	
C2019	VCEAPH1CW106M J 10		16V Electrolytic AB		R403	VR5-TW2ED750J J 7.5	1/4W	Metal Oxide AA	
C2020	VCEAPH1CW106M J 10		16V Electrolytic AB		R404	VR5-CY1JF101J J 100	1/16W	Metal Oxide AA	
C2021	VCEAPH1CW106M J 10		16V Electrolytic AB		R405	VR5-CY1JF122J J 1.2k	1/16W	Metal Oxide AA	
C2022	VCCCCY1HH680JJ68p		50V Ceramic AA		R406	VR5-CY1JF271JJ 270	1/16W	Metal Oxide AA	
C2023	VCCCCY1HH680JJ68p		50V Ceramic AA		R407	VR5-CY1JF102J J 1k	1/16W	Metal Oxide AA	
C2024	VCCCCY1HH680JJ68p		50V Ceramic AA		R408	VR5-CY1JF000J J 0	1/16W	Metal Oxide AA	
C2025	VCCCCY1HH101JJ100p		50V Ceramic AA		R411	VR5-CY1JF473JJ 47k	1/16W	Metal Oxide AA	
C2026	VCCCCY1HH151JJ150p		50V Ceramic AA		R412	VR5-CY1JF103JJ 10k	1/16W	Metal Oxide AA	
C2027	VCEAPH1CW106M J 10		16V Electrolytic AB		R413	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2028	VCKYCY1CF104ZJ 0.1		16V Ceramic AA		R414	VR5-TW2ED750J J 7.5	1/4W	Metal Oxide AA	
C2030	VCCCCY1HH101JJ100p		50V Ceramic AA		R415	VR5-CY1JF102J J 1k	1/16W	Metal Oxide AA	
C2031	VCKYCY1CF104ZJ 0.1		16V Ceramic AA		R416	VR5-CY1JF102JJ 1k	1/16W	Metal Oxide AA	
C2032	VCKYCY1HB102KJ1000p		50V Ceramic AA		R417	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2033	VCEA2H0JW338MJ 3300		6.3V Electrolytic AE		R418	VR5-TW2ED750J J 7.5	1/4W	Metal Oxide AA	
C2034	VCKYCY1HB102KJ1000p		50V Ceramic AA		R419	VR5-TW2ED750JJ 7.5	1/4W	Metal Oxide AA	
C2035	VCKYCY1CF104ZJ 0.1		16V Ceramic AA		R420	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2036	VCKYCY1HB102KJ1000p		50V Ceramic AA		R421	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2037	VCKYCY1HB102KJ1000p		50V Ceramic AA		R422	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2040	VCKYCY1EB103KJ 0.01		25V Ceramic AA		R423	VR5-CY1JF103J J 10k	1/16W	Metal Oxide AA	
C2041	VCEAPH1CW106M J 10		16V Electrolytic AB		R424	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2042	VCEAPH1CW106M J 10		16V Electrolytic AB		R426	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2043	VCEAPH1HW105M J 1		50V Electrolytic AB		R427	VR5-CY1JF103J J 10k	1/16W	Metal Oxide AA	
C2044	VCKYCY1EB103KJ 0.01		25V Ceramic AA		R430	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2045	VCEAPH1HW105M J 1		50V Electrolytic AB		R431	VR5-CY1JF271JJ 270	1/16W	Metal Oxide AA	
C2046	VCEAPH1CW106M J 10		16V Electrolytic AB		R432	VR5-CY1JF151J J 150	1/16W	Metal Oxide AA	
C2047	VCEAPH1CW106M J 10		16V Electrolytic AB		R433	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2048	VCKYCY1EB103KJ 0.01		25V Ceramic AA		R434	VR5-CY1JF103J J 10k	1/16W	Metal Oxide AA	
C2049	VCCCCY1HH101JJ100p		50V Ceramic AA		R435	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2050	VCCCCY1HH101JJ100p		50V Ceramic AA		R437	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2052	VCCCCY1HH101JJ100p		50V Ceramic AA		R438	VR5-CY1JF333JJ 33k	1/16W	Metal Oxide AA	
C2063	VCEAPH1HW106M J 10		50V Electrolytic AB		R439	VR5-CY1JF471JJ 470	1/16W	Metal Oxide AA	
C2064	VCEAPH1HW106M J 10		50V Electrolytic AB		R440	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
C2065	VCKYCY1CF104ZJ 0.1		16V Ceramic AA		R441	VR5-CY1JF223J J 22k	1/16W	Metal Oxide AA	
C2151	VCCCCY1HH101JJ100p		50V Ceramic AA		R444	VR5-CY1JF333JJ 33k	1/16W	Metal Oxide AA	
C2153	VCCCCY1HH101JJ100p		50V Ceramic AA		R446	VR5-CY1JF272J J 2.7k	1/16W	Metal Oxide AA	
C2154	VCCCCY1HH101JJ100p		50V Ceramic AA						

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DSETU1432DE01 MAIN UNIT (Continued)					RESISTORS (Continued)				
RESISTORS (Continued)					R447	VR5-CY1JF273JJ 27k	1/16W	Metal Oxide AA	
R448	VR5-CY1JF122J J 1.2k		1/16W Metal Oxide AA		R448	VR5-CY1JF122J J 1.2k	1/16W	Metal Oxide AA	
R449	VR5-CY1JF472JJ 4.7k		1/16W Metal Oxide AA		R449	VR5-CY1JF472JJ 4.7k	1/16W	Metal Oxide AA	
R450	VR5-CY1JF223JJ 22k		1/16W Metal Oxide AA		R450	VR5-CY1JF223JJ 22k	1/16W	Metal Oxide AA	
R451	VR5-CY1JF223JJ 22k		1/16W Metal Oxide AA		R451	VR5-CY1JF223JJ 22k	1/16W	Metal Oxide AA	
R452	VR5-CY1JF563JJ 56k		1/16W Metal Oxide AA		R452	VR5-CY1JF563JJ 56k	1/16W	Metal Oxide AA	
R453	VR5-CY1JF272JJ 2.7k		1/16W Metal Oxide AA		R453	VR5-CY1JF272JJ 2.7k	1/16W	Metal Oxide AA	
R454	VR5-CY1JF563JJ 56k		1/16W Metal Oxide AA		R454	VR5-CY1JF563JJ 56k	1/16W	Metal Oxide AA	
R455	VR5-CY1JF472JJ 4.7k		1/16W Metal Oxide AA		R455	VR5-CY1JF472JJ 4.7k	1/16W	Metal Oxide AA	
R456	VR5-CY1JF682JJ 6.8k		1/16W Metal Oxide AA		R456	VR5-CY1JF682JJ 6.8k	1/16W	Metal Oxide AA	
R457	VR5-CY1JF102JJ 1k		1/16W Metal Oxide AA		R457	VR5-CY1JF102JJ 1k	1/16W	Metal Oxide AA	
R458	VR5-CY1JF102JJ 1k		1/16W Metal Oxide AA		R458	VR5-CY1JF102JJ 1k	1/16W	Metal Oxide AA	
R459	VR5-CY1JF102JJ 1k		1/16W Metal Oxide AA		R459	VR5-CY1JF102JJ 1k	1/16W	Metal Oxide AA	
R460	VR5-CY1JF152JJ 1.5k		1/16W Metal Oxide AA		R460	VR5-CY1JF152JJ 1.5k	1/16W	Metal Oxide AA	
R462	VR5-CY1JF392JJ 3.9k		1/16W Metal Oxide AA		R462	VR5-CY1JF392JJ 3.9k	1/16W	Metal Oxide AA	
R463	VR5-CY1JF272JJ 2.7k		1/16W Metal Oxide AA		R463	VR5-CY1JF272JJ 2.7k	1/16W	Metal Oxide AA	
R464	VR5-CY1JF151JJ 1.5k		1/16W Metal Oxide AA		R464	VR5-CY1JF151JJ 1.5k	1/16W	Metal Oxide AA	
R465	VR5-CY1JF101JJ 10k		1/16W Metal Oxide AA		R465	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
R466	VR5-CY1JF101JJ 10k		1/16W Metal Oxide AA		R466	VR5-CY1JF101JJ 10k	1/16W	Metal Oxide AA	
R501	VR5-CY1JF103JJ 10k		1/16W Metal Oxide AA		R501	VR5-CY1JF103JJ 10k	1/16W	Metal Oxide AA	
R502	VR5-CY1JF332JJ 3.3k		1/16W Metal Oxide AA		R502	VR5-CY1JF332JJ 3.3k	1/16W	Metal Oxide AA	
R503	VR5-CY1JF683JJ 6.8k		1/16W Metal Oxide AA		R503	VR5-CY1JF683JJ 6.8k	1/16W	Metal Oxide AA	
R504	VR5-CY1JF103JJ 10k		1/16W Metal Oxide AA		R504	VR5-CY1JF103JJ 10k	1/16W	Metal Oxide AA	
R505	VR5-CY1JF103JJ 10k		1/16W Metal Oxide AA		R505	VR5-CY1JF103JJ 10k	1/16W	Metal Oxide AA	
R506	VR5-CY1JF103JJ 10k		1/16W Metal Oxide AA		R506	VR5-CY1JF103JJ 10k	1/16W	Metal Oxide AA	
R511	VR5-CY1JF682JJ 6.8k		1/16W Metal Oxide AA		R511	VR5-CY1JF682JJ 6.8k	1/16W	Metal Oxide AA	
R529	VR5-TX2HF680J J 6.8		1/2W Metal Oxide AA		R529	VR5-TX2HF680J J 6.8	1/2W	Metal Oxide AA	
R541	VR5-TW2ED220J J 2.2		1/4W Metal Oxide AA		R541	VR5-TW2ED220J J 2.2	1/4W	Metal Oxide AA	
R801	VR5-CY1JF100J J 10k		1/16W Metal Oxide AA		R801	VR5-CY1JF100J J 10k	1/16W	Metal Oxide AA	
R802	VR5-CY1JF102J J 1k		1/16W Metal Oxide AA		R802	VR5-CY1JF102J J 1k	1/16W	Metal Oxide AA	
R803	VR5-CY1JF222J J 2.2k		1/16W Metal Oxide AA		R803	VR5-CY1JF222J J 2.2k	1/16W	Metal Oxide AA	
R804	VR5-CY1JF333J J 33k		1/16W Metal Oxide AA		R804	VR5-CY1JF333J J 33k	1/16W	Metal Oxide AA	
R805	VR5-CY1JF123J J 12k		1/16W Metal Oxide AA		R805	VR5-CY1JF123J J 12k	1/16W	Metal Oxide AA	
R806	VR5-CY1JF561J J 560		1/16W Metal Oxide AA		R806	VR5-CY1JF561J J 560	1/16W	Metal Oxide AA	
R807	VR5-CY1JF151J J 150		1/16W Metal Oxide AA		R807	VR5-CY1JF151J J 150	1/16W	Metal Oxide AA	
R808	VR5-CY1JF821J J 820		1/16W Metal Oxide AA		R808	VR5-CY1JF821J J 820	1/16W	Metal Oxide AA	
R809	VR5-CY1JF681J J 680		1/16W Metal Oxide AA		R809	VR5-CY1JF681J J 680	1/16W	Metal Oxide AA	
R810	VR5-CY1JF682J J 68k		1/16W Metal Oxide AA		R810	VR5-CY1JF682J J 68k	1/16W	Metal Oxide AA	
R811	VR5-CY1JF821J J 820		1/16W Metal Oxide AA		R811	VR5-CY1JF821J J 820	1/16W	Metal Oxide AA	
R812	VR5-CY1JF103J J 10k		1/16W Metal Oxide AA		R812	VR5-CY1JF103J J 10k	1/16W	Metal Oxide AA	
R813	VR5-CY1JF102J J 1k		1/16W Metal Oxide AA		R813	VR5-CY1JF102J J 1k	1/16W	Metal Oxide AA	
R814	VR5-CY1JF102J J 1k		1/16W Metal Oxide AA		R814	VR5-CY1JF102J J 1k	1/16W	Metal Oxide AA	
R815	VR5-CY1JF561J J 560		1/16W Metal Oxide AA		R815	VR5-CY1JF561J J 560	1/16W	Metal Oxide AA	
R816	VR5-CY1JF561J J 560		1/16W Metal Oxide AA		R816	VR5-CY1JF561J J 560	1/16W	Metal Oxide AA	
R817	VR5-CY1JF561J J 560		1/16W Metal Oxide AA		R817	VR5-CY1JF561J J 560	1/16W	Metal Oxide AA	
R818	VR5-CY1JF272J J 2.7k		1/16W Metal Oxide AA		R818	VR5-CY1JF272J J 2.7k	1/16W	Metal Oxide AA	
R819	VR5-CY1JF272J J 2.7k		1/16W Metal Oxide AA		R819	VR5-CY1JF272J J 2.7k	1/16W	Metal Oxide AA	
R820	VR5-CY1JF272J J 2.7k		1/16W Metal Oxide AA		R820	VR5-CY1JF272J J 2.7k	1/16W	Metal Oxide AA	
R821	VR5-CY1JF272J J 2.2k		1/16W Metal Oxide AA		R821	VR5-CY1JF272J J 2.2k	1/16W	Metal Oxide AA	
R822	VR5-CY1JF272J J 2.2k		1/16W Metal Oxide AA		R822	VR5-CY1JF272J J 2.2k	1/16W	Metal Oxide AA	
R823	VR5-CY1JF272J J 2.2k		1/16W Metal Oxide AA		R823	VR5-CY1JF272J J 2.2k	1/16W	Metal Oxide AA	

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DSETU1432DE01 MAIN UNIT (Continued)					RESISTORS (Continued)				
R1502	VRS-CY1JF471J	4 7 0	1/16W Metal Oxide AA		R1564	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA	
R1503	VRS-CY1JF333J	3 3 k	1/16W Metal Oxide AA		R1565	VRS-CY1JF000J	0	1/16W Metal Oxide AA	
R1504	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1566	VRS-CY1JF000J	0	1/16W Metal Oxide AA	
R1506	VRS-CY1JF222J	2 2k	1/16W Metal Oxide AA		R1567	VRS-CY1JF000J	0	1/16W Metal Oxide AA	
R1506	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1568	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1508	VRS-CY1JF333J	3 3 k	1/16W Metal Oxide AA		R1569	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1509	VRS-CY1JF822J	8.2k	1/16W Metal Oxide AA		R1570	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1510	VRS-CY1JF682J	6.8k	1/16W Metal Oxide AA		R1571	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1511	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1572	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1512	VRS-TX2HF120J	1 2 1/2W	Metal Oxide AA		R1573	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1513	VRS-CY1JF561J	5 6 0	1/16W Metal Oxide AA		R1574	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1514	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R1575	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1515	VRS-CY1JF333J	3 3 k	1/16W Metal Oxide AA		R1576	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1516	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1577	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1521	VRS-CY1JF471J	4 7 0	1/16W Metal Oxide AA		R1579	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1522	VRS-CY1JF471J	4 7 0	1/16W Metal Oxide AA		R1580	VRS-CY1JF100J	1 100	1/16W Metal Oxide AA	
R1523	VRS-CY1JF471J	4 7 0	1/16W Metal Oxide AA		R1581	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R1524	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R1582	VRS-CY1JF682J	6.8k	1/16W Metal Oxide AA	
R1525	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R1601	VRS-CY1JF682J	6.8k	1/16W Metal Oxide AA	
R1526	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R1602	See Controls			
R1527	VRS-CY1JF220J	2 2 1/6W	Metal Oxide A A		R1603	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1528	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1604	VRS-CY1JF682J	6.8k	1/16W Metal Oxide AA	
R1529	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1605	See Controls			
R1530	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1606	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1531	VRS-CY1JF472J	4.7k	1/16W Metal Oxide AA		R1607	VRS-CY1JF682J	6.8k	1/16W Metal Oxide AA	
R1532	VRS-CY1JF392J	3.9k	1/16W Metal Oxide A A		R1608	See Controls			
R1533	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1609	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1534	VRS-CY1JF682J	6.8k	1/16W Metal Oxide AA		R1610	VRS-CY1JF561J	5 6 0	1/16W Metal Oxide AA	
R1535	VRS-CY1JF472J	4.7k	1/16W Metal Oxide AA		R1611	VRS-CY1JF472J	4.7k	1/16W Metal Oxide AA	
R1536	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1613	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1537	VRS-CY1JF223J	2 2k	1/16W Metal Oxide AA		R1614	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1538	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1615	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1539	VRS-CY1JF153J	1 15k	1/16W Metal Oxide AA		R1616	VRS-CY1JF221J	2 2 0	1/16W Metal Oxide AA	
R1540	VRS-CY1JF472J	4.7k	1/16W Metal Oxide A A		R1617	VRS-CY1JF223J	2 2k	1/16W Metal Oxide A A	
R1541	VRS-CY1JF473J	4.7k	1/16W Metal Oxide AA		R1618	VRS-CY1JF272J	1 2.7k	1/16W Metal Oxide AA	
R1542	VRS-CY1JF222J	2 2k	1/16W Metal Oxide AA		R1620	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1543	VRS-CY1JF104J	1 100k	1/16W Metal Oxide AA		R1621	VRS-TX2HF120J	1 2 1/2W	Metal Oxide AA	
R1544	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1622	VRS-CY1JF391J	3 90	1/16W Metal Oxide AA	
R1545	VRS-CY1JF472J	4.7k	1/16W Metal Oxide AA		R1623	See Controls			
R1546	See Controls				R1626	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1547	VRS-CY1JF472J	4.7k	1/16W Metal Oxide AA		R1627	VRS-CY1JF332J	3 3k	1/16W Metal Oxide AA	
R1548	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R1628	VRS-CY1JF391J	3 90	1/16W Metal Oxide AA	
R1549	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R1629	See Controls			
R1550	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R1632	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1551	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R1677	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R1552	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R2001	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1559	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R2002	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1560	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R2003	VRS-CY1JF821J	8 20	1/16W Metal Oxide AA	
R1561	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R2004	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1562	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R2005	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R1563	VRS-CY1JF681J	6 8 0	1/16W Metal Oxide AA		R2006	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
					R2007	VRS-CY1JF821J	8 20	1/16W Metal Oxide AA	
					R2008	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
					R2009	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DSETU1432DE01 MAIN UNIT (Continued)					RESISTORS (Continued)				
R2010	VRS-CY1JF271J	2 7 0	1/16W Metal Oxide AA		R2066	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2011	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2067	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2012	VRS-CY1JF391J	3 9 0	1/16W Metal Oxide AA		R2068	VRS-CY1JF471J	4 7 0	1/16W Metal Oxide AA	
R2013	VRS-CY1JF391J	3 9 0	1/16W Metal Oxide AA		R2069	VRS-CY1JF473J	4 7k	1/16W Metal Oxide AA	
R2014	VRS-CY1JF563J	5 6 k	1/16W Metal Oxide A A		R2070	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2015	VRS-CY1JF473J	4 7k	1/16W Metal Oxide AA		R2071	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2016	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2072	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2017	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2074	VRS-CY1JF103J	1 10k	1/16W Metal Oxide A A	
R2018	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2075	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2021	VRS-CY1JF103J	1 10k	1/16W Metal Oxide A A		R2076	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2022	VRS-TV1JD562F	5.6k	1/16W Metal Oxide A A		R2079	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R2023	VRS-TV1JD103F	1 10k	1/16W Metal Oxide A A		R2081	VRS-CY1JF472J	4.7k	1/16W Metal Oxide A A	
R2024	VRS-TV1JD103F	1 10k	1/16W Metal Oxide A A		R2082	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R2025	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA		R2083	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA	
R2026	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2084	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2027	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2085	VRS-CY1JF472J	4.7k	1/16W Metal Oxide AA	
R2028	VRS-CY1JF473J	4 7k	1/16W Metal Oxide A A		R2086	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2029	VRS-CY1JF473J	4 7k	1/16W Metal Oxide A A		R2087	VRS-CY1JF472J	4.7k	1/16W Metal Oxide AA	
R2030	VRS-CY1JF473J	4 7k	1/16W Metal Oxide A A		R2088	VRS-CY1JF473J	4 7k	1/16W Metal Oxide A A	
R2031	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2089	VRS-CY1JF473J	4 7k	1/16W Metal Oxide AA	
R2032	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2090	VRS-CY1JF473J	4 7k	1/16W Metal Oxide AA	
R2033	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2091	VRS-CY1JF473J	4 7k	1/16W Metal Oxide AA	
R2034	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2092	VRS-CY1JF393J	3 9k	1/16W Metal Oxide A A	
R2035	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2093	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2037	VRS-TX2HF56R	5.6	1/2W Metal Oxide A A		R2094	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R2038	VRS-CY1JF471J	4 7k	1/16W Metal Oxide A A		R2095	VRS-CY1JF473J	4 7k	1/16W Metal Oxide AA	
R2039	VRS-CY1JF471J	4 7k	1/16W Metal Oxide A A		R2096	VRS-CY1JF393J	3 9k	1/16W Metal Oxide AA	
R2040	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2097	VRS-CY1JF332J	3 3k	1/16W Metal Oxide AA	
R2041	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2098	VRS-CY1JF822J	8.2k	1/16W Metal Oxide A A	
R2042	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2099	VRS-CY1JF822J	8.2k	1/16W Metal Oxide A A	
R2043	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2100	VRS-CY1JF822J	8.2k	1/16W Metal Oxide A A	
R2044	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA		R2101	VRS-CY1JF123J	1 12k	1/16W Metal Oxide AA	
R2045	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA		R2102	VRS-CY1JF472J	4.7k	1/16W Metal Oxide A A	
R2046	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA		R2103	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R2047	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA		R2104	VRS-CY1JF103J	1 10k	1/16W Metal Oxide A A	
R2048	VRS-CY1JF273J	2 7k	1/16W Metal Oxide A A		R2105	VRS-CY1JF103J	1 10k	1/16W Metal Oxide A A	
R2049	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA		R2106	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA	
R2050	VRS-CY1JF333J	3 3 k	1/16W Metal Oxide AA		R2107	VRS-CY1JF392J	3 3.9k	1/16W Metal Oxide AA	
R2051	VRS-CY1JF333J	3 3k	1/16W Metal Oxide A A		R2108	VRS-CY1JF392J	3 3.9k	1/16W Metal Oxide A A	
R2053	VRS-CY1JF563J	5 6 k	1/16W Metal Oxide A A		R2109	VRS-CY1JF123J	1 12 k	1/16W Metal Oxide AA	
R2054	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2110	VRS-CY1JF104J	1 100k	1/16W Metal Oxide AA	
R2055	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2112	VRS-CY1JF392J	3 3.9k	1/16W Metal Oxide A A	
R2056	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2113	VRS-CY1JF103J	1 10k	1/16W Metal Oxide AA	
R2057	VRS-CY1JF101J	1 100	1/16W Metal Oxide AA		R2114	VRS-CY1JF473J	4 7k	1/16W Metal Oxide AA	
R2058	VRS-CY1JF183J	1 18 k	1/16W Metal Oxide AA		R2115	VRS-CY1JF472J	4.7k	1/16W Metal Oxide A A	
R2059	VRS-CY1JF182J	1 18k	1/16W Metal Oxide AA		R2116	VRS-CY1JF332J	3 3.3k	1/16W Metal Oxide AA	
R2060	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2117	VRS-CY1JF392J	3 3.9k	1/16W Metal Oxide A A	
R2062	See Controls				R2118	VRS-CY1JF122J	1 1.2k	1/16W Metal Oxide AA	
R2063	VRS-CY1JF102J	1 1k	1/16W Metal Oxide AA		R2119	VRS-CY1JF000J	0	1/16W Metal Oxide AA	
R2064	VRS-CY1JF332J	3 3.3k	1/16W Metal Oxide AA		R2120	VRS-CY1JF271J	2 7 0	1/16W Metal Oxide AA	
R2065	VRS-CY1JF101J	1 100	1/16W Metal Oxide A A		R2121	VRS-CY1JF122J	1 1.2k	1/16W Metal Oxide AA	
					R2122	VRS-CY1JF000J	0	1/16W Metal Oxide AA	
					R2123	VRS-CY1JF271J	2 7 0	1/16W Metal Oxide AA	
					R2124	VRS-CY1JF392J	3 3.9k	1/16W Metal Oxide A A	

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DSETU1432DE01 MAIN UNIT (Continued)					SWITCHES				
RESISTORS (Continued)					S1001	QSW-K0098CEZZ J		AC	
R2125	VR5-CY 1 JF122J J1.2k 1/16W Metal Oxide AA				S2001	QSW-P0577CEZZ J		AE	
R2126	VR5-CY1JF000J J 0 1/16W Metal Oxide AA				S2002	QSW-K0065GEZZ J DAC(+)		AC	
R2127	VR5-CY1JF271J J 2 7 0 1/16W Metal Oxide AA				S2003	QSW-K0065GEZZ J P-Mode		AC	
R2128	VR5-CY 1 JF222J J2.2k 1/16W Metal Oxide AA				S2004	QSW-K0065GEZZ J Volume(-)		AC	
R2129	VR5-CY1JF122J J 1.2k 1/16W Metal Oxide AA				S2005	QSW-K0065GEZZ J Volume(+)		AC	
R2130	VR5-CY1JF000J J 0 1/16W Metal Oxide AA				S2006	QSW-K0065GEZZ J A N		AC	
R2131	VR5-CY 1 JF392J J3.9k 1/16W Metal Oxide AA				S2007	QSW-K0065GEZZ J Revers		AC	
R2132	VR5-CY 1 JF472J J4.7k 1/16W Metal Oxide AA				S2008	QSW-K0065GEZZ J B/B		AC	
R2133	VR5-CY 1 JF184J J180k 1/16W Metal Oxide AA				S2009	QSW-K0065GEZZ J Mode		AC	
R2135	VR5-CY1JF102J J 1 k 1/16W Metal Oxide AA				S2010	QSW-K0065GEZZ J System		AC	
R2136	VR5-CY 1 JF472J J4.7k 1/16W Metal Oxide AA				S2011	QSW-K0065GEZZ J		AC	
R2137	VR5-CY1JF103J J 10k 1/16W Metal Oxide A A				S2012	QSW-B0022CEZZ J Lamp Cover		AE	
R2138	VR5-CY1JF561J J 5 6 0 1/16W Metal Oxide AA								
R2139	See Controls								
R2140	VR5-CY 1 JF471J J 470 1/16W Metal Oxide A A				MISCELLANEOUS PARTS				
R2141	VR5-CY 1 JF682J J6.8k 1/16W Metal Oxide A A				F82001	RBLN-0065CEZZ J Ferrite Bead		AB	
R2144	VR5-CY1JF102J J 1 k 1/16W Metal Oxide AA				J401	QTANJ0935CEZZ J AV Jack		AS	
R2145	VR5-CY1JF101J J 1 0 0 1/16W Metal Oxide AA				P901	QPLGN0264TAZZ J Plug 2-pin, (BA)		AC	
R2146	VR5-CY 1 JF682J J6.8k 1/16W Metal Oxide A A					QPLGN0280GEZZ J Plug 2-pin, (SP)		AB	
R2147	VR5-CY1JF682J J 6.8k 1/16W Metal Oxide A A					QPLGN0295CEZZ J Plug 2-pin		AR	
R2148	VR5-CY1 JF103J J 10k 1/16W Metal Oxide AA					QPLGN0364TAZZ J Plug 3-pin, (RA)		AC	
R2149	VR5-CY1JF333J J 33k 1/16W Metal Oxide A A				P1501	QPLGN0464TAZZ J Plug 4-pin, (EB)		AC	
R2150	VR5-CY1JF333J J 33k 1/16W Metal Oxide AA				P1502	QPLGN0764TAZZ J Plug 7-pin, (DS)		AD	
R2151	VR5-CY1JF333J J 33k 1/16W Metal Oxide AA				P1503	QPLGN0778GEZZ J Plug 7-pin, (DH)		AC	
R2152	VR5-CY1JF473J J 47k 1/16W Metal Oxide A A					QPLGN2243CEZZ J Plug 22-pin, (LA)		AE	
R2153	VR5-CY1JF101J J 1 0 0 1/16W Metal Oxide AA								
R2154	VR5-CY1JF223J J 22k 1/16W Metal Oxide A A								
R2155	VR5-CY 1 JF392J J3.9k 1/16W Metal Oxide A A								
R2156	VR5-TV1D162F J 1.6k 1/16W Metal Oxide AA								
R2157	VR5-CY1JF102J J 1 k 1/16W Metal Oxide AA								
R2158	VR5-CY1JF102J J 1 k 1/16W Metal Oxide AA								
R2160	VR5-CY1JF473J J 47k 1/16W Metal Oxide A A								
					— End of MAIN UNIT. —				

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DUNTK7780DE01 SUB UNIT					DIODES				
INTEGRATED CIRCUITS					D1401	VHDM143///-1 J		AB	
IC1401	VHINJM318M/-1 J NJM318M		AC		D1402	VHDM143///-1J		AB	
IC1402	VHINJM318M/-1 J NJM318M		AG		D1403	VHDM143///-1J		AB	
IC1403	VHITC4053BF-1 J TC4053BF		AG		D1404	VHDM143///-1J		AB	
IC1404	VHINJM318M/-1 J NJM318M		AG		D1405	VHDM143///-1J		AB	
IC1405	VHINJM318M/-1 J NJM318M		AG		D1406	VHDM143///-1J		AB	
IC1406	VHITC4053BF-1 J TC4053BF		AC						
IC1407	VHINJM318M/-1 J NJM318M		AG		COILS				
IC1408	VHINJM318M/-1 J NJM318M		AC		L501	VP-1M101K7R7N J Peaking Coil, 100µH		AC	
					L502	VP-1M101K7R7N J Peaking Coil, 100µH		AC	
					L503	VP-1M101K7R7N J Peaking Coil, 100µH		AC	
					L504	V P - I M101K7R7N J Peaking Coil, 100µH		AC	
TRANSISTORS					CONTROLS				
Q504	VS25C3265Y/-1 J 25C3265Y		AB		R820	RVR-M7895TAZZ J 1k(B) Com. Bias Adj.		AC	
Q505	VS25A1 298Y/-1 J 25A1298Y		AB		R 1434	RVR-M7901TAZZ J 10k(B) RGB Sub Adj.		AC	
Q506	VSBC847B1 F/-1 J BC847B1F		AA						
41401	VSBC847B1 F/-1 J BC847B1F		AA						
Q1402	VSBC857B3F/-1 J BC857B3F		AA						
41403	VSBC847B1 F/-1 J BC847B1F		AA						
41404	VSBC857B3F/-1 J BC857B3F		AA						
91405	VSBC847B1 F/-1 J BC847B1F		AA						
Q1406	VSBC857B3F/-1 J BC857B3F		AA		CAPACITORS				
41407	VSBC847B1 F/-1 J BC847B1F		AA		C506	VCEAPH1HW105M J 1 50V Electrolytic		AB	
Q1408	VSBC857B3F/-1 J BC857B3F		AA		C507	VCEAPF1CW226M J 2 2 16V Electrolytic		AB	
Q1409	VSBC847B1 F/-1 J BC847B1F		AA		C508	VCEAPH1CW106M J 10 16V Electrolytic		AB	
41410	VSBC857B3F/-1 J BC857B3F		AA		C509	VCEAPF1EW106M J 1 0 25V Electrolytic		AB	
41411	VSBC847B1 F/-1 J BC847B1F		AA		C510	VCEAPH1CW106M J 10 16V Electrolytic		AB	
Q1412	VSBC857B3F/-1 J BC857B3F		AA		C511	VCEAPH1CW106M J 1 0 16V Electrolytic		AB	
41413	VSBC847B1 F/-1 J BC847B1F		AA		G612	VCEAPH1CW106M J 1 0 16V Electrolytic		AB	
41414	VSBC857B3F/-1 J BC857B3F		AA		c513	VCEAPH1CW106M J 1 0 16V Electrolytic		AB	
41415	VSBC847B1 F/-1 J BC847B1F		AA		C515	VCKYCY1CF104Z J 0.1 16V Ceramic		AA	
Q1416	VSBC857B3F/-1 J BC857B3F		AA		CI401	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
41417	VSBC847B1 F/-1 J BC847B1F		AA		CI402	VCCCY1HH6R0D J 6p 50V Ceramic		AA	
Q1418	VSBC857B3F/-1 J BC857B3F		AA		CI403	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
Q1419	VSBC847B1 F/-1 J BC847B1F		AA		CI404	VCCCY1HH6R0D J 6p 50V Ceramic		AA	
Q1420	VSBC857B3F/-1 J BC857B3F		AA		CI405	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
Q1421	VSBC847B1 F/-1 J BC847B1F		AA		CI407	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
Q1422	VSBC857B3F/-1 J BC857B3F		AA		CI408	VCCCY1HH6R0D J 6p 50V Ceramic		AA	
Q1423	VSBC847B1 F/-1 J BC847B1F		AA		CI409	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
Q1424	VSBC857B3F/-1 J BC857B3F		AA		C1410	VCCCY1HH6R0D J 6p 50V Ceramic		AA	
Q1425	VSBC847B1 F/-1 J BC847B1F		AA		C1411	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
Q1426	VSBC857B3F/-1 J BC857B3F		AA		CI412	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
Q1427	VSBC847B1 F/-1 J BC847B1F		AA		C1413	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
Q1428	VSBC857B3F/-1 J BC857B3F		AA		CI414	VCCCY1HH6R0D J 6p 50V Ceramic		AA	
Q1429	VSBC847B1 F/-1 J BC847B1F		AA		CI415	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
41430	VSBC857B3F/-1 J BC857B3F		AA		CI416	VCCCY1HH6R0D J 6p 50V Ceramic		AA	
41431	VSBC847B1 F/-1 J BC847B1F		AA		C1417	VCEAPF1CW226M J 2 2 16V Electrolytic		AB	
Q1432	VSBC857B3F/-1 J BC857B3F		AA		CI418	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
41433	VSBC847B1 F/-1 J BC847B1F		AA		C1419	VCEAPF1CW226M J 2 2 16V Electrolytic		AB	
41434	VSBC857B3F/-1 J BC857B3F		AA		C1420	VCKYCY1EB103K J 0.01 25V Ceramic		AA	
Q1435	VSBC847B1 F/-1 J BC847B1F		AA		C1423	VCEAPF1CW226M J 2 2 16V Electrolytic		AB	
Q1436	VSBC857B3F/-1 J BC857B3F		AA		C1424	VCEAPF1EW226M J 2 2 25V Electrolytic		AB	

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DUNTK7780DE01 SUB UNIT (Continued)					RESISTORS (Continued)				
CAPACITORS (Continued)					R1415	VRS-TV1 JD392J 3.9k 1/16W Metal Oxide AA			
C1425	VCKYCY1CF104ZJ 0.1	16V	Ceramic AA		R1417	VRS-TV1 JD272FJ 2.7k 1/16W Metal Oxide AA			
C1426	VCKYCY1CF104ZJ 0.1	16V	Ceramic AA		R1418	VRS-TV1JD102FJ 1k 1/16W Metal Oxide AA			
C1427	VCKYCY1CF104ZJ 0.1	16V	Ceramic AA		R1419	VRS-TV1JD102FJ 1k 1/16W Metal Oxide AA			
C1428	VCKYCY1CF104ZJ 0.1	16V	Ceramic AA		R1420	VRS-CY1JF392J 3.9k 1/16W Metal Oxide AA			
C1429	VCKYCY1CF104ZJ 0.1	16V	Ceramic AA		R1421	VRS-CY1JF332J 3.3k 1/16W Metal Oxide AA			
C1430	VCEAPH1CW106MJ 1 0	16V	Electrolytic AB		R1422	VRS-CY1JF332J 3.3k 1/16W Metal Oxide AA			
C1431	VCEAPH1CW106MJ 1 0	16V	Electrolytic AB		R1423	VRS-CY1JF332J 3.3k 1/16W Metal Oxide AA			
C1432	VCEAPH1CW106MJ 1 0	16V	Electrolytic AB		R1424	VRS-CY1JF392J 3.9k 1/16W Metal Oxide AA			
C1433	VCEAPH1CW106MJ 1 0	16V	Electrolytic AB		R1428	VRS-TV1JD392J 3.9k 1/16W Metal Oxide AA			
C1434	VCEAPH1CW106MJ 1 0	16V	Electrolytic AB		R1430	VRS-TV1JD272J 2.7k 1/16W Metal Oxide AA			
C1435	VCKYCY1EB103KJ 0.01	25V	Ceramic AA		R1432	VRS-TV1JD102FJ 1k 1/16W Metal Oxide AA			
C1436	VCCCCY1HH120J 12p 50V		Ceramic AA		R1433	VRS-CY1JF103J 10k 1/16W Metal Oxide AA			
C1437	VCKYCY1CF104ZJ 0.1	16V	Ceramic AA		R1434	See Controls			
C1438	VCKYCY1CF104ZJ 0.1	16V	Ceramic AA		R1435	VRS-CY1JF103J 10k 1/16W Metal Oxide AA			
RESISTORS					R1436	VRS-CY1JF392J 3.9k 1/16W Metal Oxide AA			
R514	VRS-CY1JF103J 10k 1/16W Metal Oxide AA				R1437	VRS-TV1JD103FJ 10k 1/16W Metal Oxide AA			
R517	VRS-CY 1 JF6R8J 6.8 1/16W Metal Oxide AA				R1439	VRS-TV1 JD103FJ 10k 1/16W Metal Oxide AA			
R518	VRS-CY1JF152J 15k 1/16W Metal Oxide AA				R1440	VRS-CY 1 JF392J 3.9k 1/16W Metal Oxide AA			
R519	VRS-CY1JF332J 3.3k 1/16W Metal Oxide AA				R1441	VRS-TX2HF682J 6.8k 1/2W Metal Oxide A			
R520	See Controls				R1442	VRS-TV1 JD470J 47 1/16W Metal Oxide AA			
R521	VRS-CY1JF222J 2.2k 1/16W Metal Oxide AA				R1443	VRS-TV1 JD470J 47 1/16W Metal Oxide AA			
R522	VRS-CY 1 JF562J 5.6k 1/16W Metal Oxide AA				R1444	VRS-TV1 JD100J 10 1/16W Metal Oxide AA			
R523	VRS-CY1 JF472J 4.7k 1/16W Metal Oxide AA				R1445	VRS-TV1JD100J 10 1/16W Metal Oxide AA			
R525	VRS-CY1JF822J 8.2k 1/16W Metal Oxide AA				R1446	VRS-CY1JF101J 10 1/16W Metal Oxide AA			
R526	VRS-TX2HF5R6J 5.6 1/2W Metal Oxide AA				R1447	VRS-CY1JF102J 10 1/16W Metal Oxide AA			
R530	VRS-CY 1 JF102J 10k 1/16W Metal Oxide AA				R1448	VRS-CY1JF101J 10 1/16W Metal Oxide AA			
R532	VRS-CY1JF103J 10k 1/16W Metal Oxide AA				R1449	VRS-CY1JF103J 10k 1/16W Metal Oxide AA			
R534	VRS-CY1JF102J 10k 1/16W Metal Oxide AA				R1450	VRS-TX2HF682J 6.8k 1/2W Metal Oxide AA			
R535	VRS-TV1 JD5R6J 5.6 1/16W Metal Oxide AA				R1451	VRS-TV1 JD470J 47 1/16W Metal Oxide AA			
R536	VRS-TV1 JD5R6J 5.6 1/16W Metal Oxide AA				R1452	VRS-TV1JD470J 47 1/16W Metal Oxide AA			
R537	VRS-TV1 JD5R6J 5.6 1/16W Metal Oxide AA				R1453	VRS-TV1 JD100J 10 1/16W Metal Oxide AA			
R538	VRS-TV1 JD5R6J 5.6 1/16W Metal Oxide AA				R1454	VRS-TV1 JD100J 10 1/16W Metal Oxide AA			
R539	VRS-TV1 JD5R6J 5.6 1/16W Metal Oxide AA				R1455	VRS-CY1JF101J 10 1/16W Metal Oxide AA			
R540	VRS-TV1 JD5R6J 5.6 1/16W Metal Oxide AA				R1456	VRS-CY 1 JF102J 10k 1/16W Metal Oxide AA			
R542	VRS-CY1JF101J 10 1/16W Metal Oxide AA				R1457	VRS-CY1JF101J 100 1/16W Metal Oxide AA			
R543	VRS-CY1JF101J 100 1/16W Metal Oxide AA				R1458	VRS-CY1JF103J 10k 1/16W Metal Oxide AA			
R544	VRS-CY1JF3R3J 3.3 1/16W Metal Oxide AA				R1459	VRS-TX2HF682J 6.8k 1/2W Metal Oxide AA			
R545	VRS-CY1JF3R3J 3.3 1/16W Metal Oxide AA				R1460	VRS-TV1JD470J 47 1/16W Metal Oxide AA			
R546	VRS-CY1JF472J 4.7k 1/16W Metal Oxide AA				R1461	VRS-TV1JD470J 47 1/16W Metal Oxide AA			
R1401	VRS-CY1JF101J 10 1/16W Metal Oxide AA				R1462	VRS-TV1JD100J 10 1/16W Metal Oxide AA			
R1402	VRS-TV1JD392J 3.9k 1/16W Metal Oxide AA				R1463	VRS-TV1JD100J 10 1/16W Metal Oxide AA			
R1404	VRS-TV1JD272J 2.7k 1/16W Metal Oxide AA				R1464	VRS-CY1JF101J 10 1/16W Metal Oxide AA			
R1406	VRS-TV1JD102FJ 1k 1/16W Metal Oxide AA				R1465	VRS-CY1JF102J 10 1/16W Metal Oxide AA			
R1407	VRS-CY1JF392J 3.9k 1/16W Metal Oxide AA				R1466	VRS-CY1JF101J 10 1/16W Metal Oxide AA			
R1408	VRS-CY1JF332J 3.3k 1/16W Metal Oxide AA				R1467	VRS-CY1JF103J 10k 1/16W Metal Oxide AA			
R1410	VRS-CY1JF332J 3.3k 1/16W Metal Oxide AA				R1468	VRS-TX2HF682J 6.8k 1/2W Metal Oxide AA			
R1411	VRS-CY1JF392J 3.9k 1/16W Metal Oxide AA				R1469	VRS-TV1JD470J 47 1/16W Metal Oxide AA			
R1412	VRS-TV1JD102FJ 1k 1/16W Metal Oxide AA				R1470	VRS-TV1JD470J 47 1/16W Metal Oxide AA			
					R1471	VRS-TV1JD100J 10 1/16W Metal Oxide AA			
					R1472	VRS-TV1JD100J 10 1/16W Metal Oxide AA			
					R1473	VRS-CY1JF101J 10 1/16W Metal Oxide AA			
					R1474	VRS-CY1JF102J 10k 1/16W Metal Oxide AA			
					R1475	VRS-CY1JF101J 10 1/16W Metal Oxide AA			

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DUNTK7780DE01 SUB UNIT (Continued)					DUNTK7782DE01 DIGITAL UNIT				
RESISTORS (Continued)					INTEGRATED CIRCUITS				
R1476	VRS-CY1JF103J 10k 1/16W Metal Oxide AA				IC1001	RH-IX2147CEZZ J		BA	
R1477	VRS-TX2HF682J 6.8k 1/2W Metal Oxide A				IC1002	VHIMB40568/-1 J	MB40568PF	AW	
R1478	VRS-TV1JD470J 47 1/16W Metal Oxide A				IC1003	VHIMB40568/-1 J	MB40568PF	AW	
R1479	VRS-TV1 JD470J 47 1/16W Metal Oxide A				IC1004	VHIMB40568/-1 J	MB40568PF	AW	
R1480	VRS-TV1JD100J 10 1/16W Metal Oxide AA				IC1005	RH-IX2063CEZZ J	UPD42102G-3	AU	
R1481	VRS-TV1JD100J 10 1/16W Metal Oxide AA				IC1006	RH-IX2063CEZZ J	UPD42102G-3	AU	
R1482	VRS-CY1JF101J 10 1/16W Metal Oxide AA				IC1007	RH-IX2063CEZZ J	UPD42102G-3	AU	
R1483	VRS-CY1JF102J 10k 1/16W Metal Oxide AA				IC1008	RH-IX2063CEZZ J	UPD42102G-3	AU	
R1484	VRS-CY1JF101J 10 1/16W Metal Oxide AA				IC1009	RH-IX2063CEZZ J	UPD42102G-3	AU	
R1485	VRS-CY1JF103J 10k 1/16W Metal Oxide AA				IC1010	RH-IX2063CEZZ J	UPD42102G-3	AU	
R1486	VRS-TX2HF682J 6.8k 1/2W Metal Oxide A				IC1011	VHIMB40978F-1 J	MB40978PFQ	Ax	
R1487	VRS-TV1JD470J 47 1/16W Metal Oxide A				IC1012	VHITC4538AF-1 J	TC74HC4538AF	AH	
R1488	VRS-TV1JD470J 47 1/16W Metal Oxide A				IC1013	VHITC4538AF-1 J	TC74HC4538AF	AH	
R1489	VRS-TV1JD100J 10 1/16W Metal Oxide AA				IC1018	VHINJM2107F-1 J	NJM2107F	AE	
R1490	VRS-TV1JD100J 10 1/16W Metal Oxide AA				IC1019	VHINJM2107F-1 J	NJM2107F	AE	
R1491	VRS-CY1JF101J 10 1/16W Metal Oxide AA				TRANSISTORS				
R1492	VRS-CY1JF102J 10k 1/16W Metal Oxide AA				Q1001	V58C857B3F/-1 J	BC857B3F	AA	
R1493	VRS-CY1JF101J 10 1/16W Metal Oxide AA				Q1002	V58C847B1F/-1 J	BC847B1F	AA	
R1495	VRS-CY1JF123J 12k 1/16W Metal Oxide AA				41003	V58C847B1F/-1 J	BC847B1F	AA	
R1496	VRS-TV1JD102FJ 1k 1/16W Metal Oxide AA				Q1004	V58C847B1F/-1 J	BC847B1F	AA	
R1497	VRS-CY1JF103J 10k 1/16W Metal Oxide A				Q1005	V58C857B3F/-1 J	BC857B3F	AA	
R1498	VRS-CY1JF332J 3.3k 1/16W Metal Oxide AA				Q1006	V58C847B1F/-1 J	BC847B1F	AA	
MISCELLANEOUS PARTS					Q1008	V58C857B3F/-1 J	BC857B3F	AA	
P501	QPLGN2243CEZZ J Plug 22pin, (LA)			AE	Q1009	V58C847B1F/-1 J	BC847B1F	AA	
SC1401	QSOCN3048TAZZ J Socket 30pin, (LC)			AF	Q1010	V58C847B1F/-1 J	BC847B1F	AA	
End of SUB UNIT					Q1011	V58C847B1F/-1 J	BC847B1F	AA	
DUNTK7781DE01 BIMETAL UNIT					Q1012	V58C857B3F/-1 J	BC857B3F	AA	
MISCELLANEOUS PARTS					Q1013	V58C847B1F/-1 J	BC847B1F	AA	
RBIM-0006CEZZ J Bimetal				AK	Q1015	V58C857B3F/-1 J	BC857B3F	AA	
QCWN-3341 CEZZ J Connecting Wire, (BA)				AD	Q1016	V58C847B1F/-1 J	BC847B1F	AA	
End of BIMETAL UNIT					Q1017	V58C847B1F/-1 J	BC847B1F	AA	
					Q1018	V58C847B1F/-1 J	BC847B1F	AA	
					Q1019	V58C857B3F/-1 J	BC857B3F	AA	
					41020	V58C847B1F/-1 J	BC847B1F	AA	
					41022	V58C847B1F/-1 J	BC847B1F	AA	
					Q1023	V58C847B1F/-1 J	BC847B1F	AA	
					Q1024	V58C847B1F/-1 J	BC847B1F	AA	
					Q1025	V58C857B3F/-1 J	BC857B3F	AA	
					Q1026	V58C857B3F/-1 J	BC857B3F	AA	
					Q1027	V58C847B1F/-1 J	BC847B1F	AA	
					Q1028	V58C847B1F/-1 J	BC847B1F	AA	
					Q1029	V58C857B3F/-1 J	BC857B3F	AA	
					Q1030	V58C857B3F/-1 J	BC857B3F	AA	
					Q1031	V58C847B1F/-1 J	BC847B1F	AA	
					Q1032	V58C847B1F/-1 J	BC847B1F	AA	
					Q1033	V58C857B3F/-1 J	BC857B3F	AA	
					Q1432	V58C857B3F/-1 J	BC857B3F	AA	

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DUNTK7782DE01 DIGITAL UNIT (Continued)					CAPACITORS (Continued)				
DIODES					C1006	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
01001	VHDDAN202U/-1 J			AA	C1007	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
D1002	VHDDAN202U/-1 J			AA	C1008	VCE9PF1CW475M J 4 7	16 V	Elect. (N.P) A c	
D1003	VHDDAN202U/-1 J			AA	C1009	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
01004	VHD15V217/-1 J			A8	C1010	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
01005	VHD15V217/-1 J			AB	C1011	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
01008	RH-EX0515CEZZ J Zener Diode			AB	C1012	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
COILS AND FILTERS					C1013	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
FL1001	RFLN0097GEZZ J Filter			AF	C1014	VCE9PF1CW475M J 4 7	16V	Elect. (N.P) AC	
FL1002	RFLN0097GEZZ J Filter			AF	C1015	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
FL1003	RFLN0097GEZZ J Filter			AF	C1016	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1004	RCILF0214CEZZ J LowPassFilter			AF	C1017	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1005	RCILF0214CEZZ J LowPassFilter			AF	C1018	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1006	RCILF0214CEZZ J LowPassFilter			AF	C1019	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
FL1007	RCILF0215CEZZ J LowPassFilter			AF	C1020	VCE9PF1CW475M J 4 7	16V	Elect. (N.P) AC	
FL1008	RCILF0215CEZZ J LowPassFilter			AF	C1021	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
FL1009	RCILF0215CEZZ J LowPassFilter			AF	C1022	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1010	RFLN0080GEZZ J Filter			AD	C1023	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1011	RFLN0080GEZZ J Filter			AD	C1024	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1012	RFLN0080GEZZ J Filter			AD	C1026	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
FL1013	RFLN0080GEZZ J Filter			AD	C1028	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
FL1014	RFLN0080GEZZ J Filter			AD	C1030	VCEAPF1AW476M J 4 7	10V	Electrolytic AB	
FL1015	RFLN0080GEZZ J Filter			AD	C1031	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1016	RFLN0080GEZZ J Filter			AD	C1032	VCEAPH1HW105M J 1	50V	Electrolytic AB	
FL1017	RFLN0080GEZZ J Filter			AD	C1033	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1018	RFLN0080GEZZ J Filter			AD	C1034	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1020	RFLN0080GEZZ J Filter			AD	C1035	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1021	RFLN0097GEZZ J Filter			AF	C1036	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1022	RFLN0097GEZZ J Filter			AF	C1037	VCKYCY1HB102K J1000p50V Ceramic		AA	
FL1023	RFLN0097GEZZ J Filter			AF	C1038	VCKYCY1HB102K J1000p50V Ceramic		AA	
FL1024	RFLN0097GEZZ J Filter			AF	C1039	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
FL1025	RFLN0080GEZZ J Filter			AD	C1040	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
L1001	RCILB0066CEZZ J Coil, Vco 1 Adj.			AC	C1041	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
L1002	RCILB0065CEZZ J Coil, Vco 2 Adj.			AC	C1042	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
CONTROL					C1043	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
R1119	RVR-M7899TAZZ J H-Sync Phase adj.			AC	C1044	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
CAPACITORS					C1047	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
C1001	VCEAPF1CW476M J 4 7		16V	Electrolytic AC	C1048	VCCCTV1HH681JJ680p 50V Ceramic		AA	
C1002	VCEAPF1CW476M J 4 7		16V	Electrolytic AC	C1050	VCCCTV1HH561JJ560p50V Ceramic		AA	
C1003	VCEAPF1CW476M J 4 7		16V	Electrolytic AC	C1051	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	
C1004	VCEAPF1CW476M J 4 7		16V	Electrolytic AC	C1054	VCCCTV1HH101JJ100p 50V Ceramic		AA	
C1005	VCEAPF1AW476M J 4 7		10V	Electrolytic AB	C1055	VCKYTV1EF104Z J 0.1	25V	Ceramic AB	

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DUNTK7782DE01 DIGITAL UNIT (Continued)					RESISTORS (Continued)				
CAPACITORS (Continued)					R1053	VRS-CY1JF152JJ1.5k 1/16W Metal Oxide		A A	
C1068	VCEAPF1CW476M J 4 7		16V	Electrolytic AC	R1054	VRS-CY1JF681JJ680 1/16W Metal Oxide		A A	
C1069	VCEAPF1EW475M J 4 7		25V	Electrolytic AB	R1055	VRS-CY1JF391JJ390 1/16W Metal Oxide		AA	
C1070	VCKYTV1HB102K J1000p50V Ceramic			AA	R1056	VRS-CY1JF391JJ390 1/16W Metal Oxide		AA	
RESISTORS					R1057	VRS-CY1JF561JJ560 1/16W Metal Oxide		AA	
R1001	VRS-CY1JF153JJ1.5k 1/16W Metal Oxide			AA	R1058	VRS-CY1JF183JJ18k 1/16W Metal Oxide		AA	
R1002	VRS-CY1JF473JJ47k 1/16W Metal Oxide			AA	R1059	VRS-CY1JF393JJ390 1/16W Metal Oxide		AA	
R1003	VRS-CY1JF391JJ390 1/16W Metal Oxide			AA	R1061	VRS-CY1JF221JJ220 1/16W Metal Oxide		AA	
R1004	VRS-CY1JF561JJ560 1/16W Metal Oxide			AA	R1062	VRS-CY1JF681JJ680 1/16W Metal Oxide		AA	
R1005	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1063	VRS-CY1JF560JJ560 1/16W Metal Oxide		AA	
R1006	VRS-CY1JF391JJ390 1/16W Metal Oxide			AA	R1064	VRS-CY1JF102JJ1k 1/16W Metal Oxide		AA	
R1007	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1065	VRS-CY1JF102JJ1k 1/16W Metal Oxide		AA	
R1008	VRS-CY1JF152JJ1.5k 1/16W Metal Oxide			AA	R1067	VRS-CY1JF152JJ1.5k 1/16W Metal Oxide		AA	
R1009	VRS-CY1JF561JJ560 1/16W Metal Oxide			AA	R1068	VRS-CY1JF681JJ680 1/16W Metal Oxide		AA	
R1010	VRS-CY1JF105JJ1M 1/16W Metal Oxide			AA	R1069	VRS-CY1JF391JJ390 1/16W Metal Oxide		AA	
R1011	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1070	VRS-CY1JF391JJ390 1/16W Metal Oxide		AA	
R1012	VRS-CY1JF562JJ5.6k 1/16W Metal Oxide			AA	R1071	VRS-CY1JF561JJ560 1/16W Metal Oxide		AA	
R1015	VRS-CY1JF560JJ5.6k 1/16W Metal Oxide			AA	R1072	VRS-CY1JF183JJ18k 1/16W Metal Oxide		AA	
R1016	VRS-CY1JF153JJ1.5k 1/16W Metal Oxide			AA	R1073	VRS-CY1JF393JJ390 1/16W Metal Oxide		AA	
R1017	VRS-CY1JF473JJ47k 1/16W Metal Oxide			AA	R1075	VRS-CY1JF221JJ220 1/16W Metal Oxide		AA	
R1018	VRS-CY1JF391JJ390 1/16W Metal Oxide			AA	R1076	VRS-CY1JF681JJ680 1/16W Metal Oxide		AA	
R1019	VRS-CY1JF561JJ560 1/16W Metal Oxide			AA	R1077	VRS-CY1JF560JJ5.6k 1/16W Metal Oxide		AA	
R1020	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1078	VRS-CY1JF102JJ1k 1/16W Metal Oxide		AA	
R1021	VRS-CY1JF391JJ390 1/16W Metal Oxide			AA	R1079	VRS-CY1JF102JJ1k 1/16W Metal Oxide		AA	
R1022	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1081	VRS-CY1JF152JJ1.5k 1/16W Metal Oxide		AA	
R1023	VRS-CY1JF152JJ1.5k 1/16W Metal Oxide			AA	R1082	VRS-CY1JF681JJ680 1/16W Metal Oxide		AA	
R1024	VRS-CY1JF561JJ560 1/16W Metal Oxide			AA	R1083	VRS-CY1JF391JJ390 1/16W Metal Oxide		AA	
R1025	VRS-CY1JF105JJ1M 1/16W Metal Oxide			AA	R1084	VRS-CY1JF391JJ390 1/16W Metal Oxide		AA	
R1026	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1085	VRS-CY1JF561JJ560 1/16W Metal Oxide		AA	
R1027	VRS-CY1JF562JJ5.6k 1/16W Metal Oxide			AA	R1086	VRS-CY1JF183JJ18k 1/16W Metal Oxide		AA	
R1030	VRS-CY1JF560JJ5.6k 1/16W Metal Oxide			AA	R1087	VRS-CY1JF393JJ390 1/16W Metal Oxide		AA	
R1031	VRS-CY1JF153JJ1.5k 1/16W Metal Oxide			AA	R1088	VRS-CY1JF153JJ1.5k 1/16W Metal Oxide		AA	
R1032	VRS-CY1JF473JJ47k 1/16W Metal Oxide			AA	R1089	VRS-CY1JF393JJ390 1/16W Metal Oxide		AA	
R1033	VRS-CY1JF391JJ390 1/16W Metal Oxide			AA	R1090	VRS-CY1JF184JJ180k1/16W Metal Oxide		AA	
R1034	VRS-CY1JF561JJ560 1/16W Metal Oxide			AA	R1091	VRS-CY1JF392JJ3.9k 1/16W Metal Oxide		AA	
R1035	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1092	VRS-CY1JF562JJ5.6k 1/16W Metal Oxide		AA	
R1036	VRS-CY1JF391JJ390 1/16W Metal Oxide			AA	R1093	VRS-CY1JF105JJ1M 1/16W Metal Oxide		AA	
R1037	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1094	VRS-CY1JF124JJ120k1/16W Metal Oxide		AA	
R1038	VRS-CY1JF152JJ1.5k 1/16W Metal Oxide			AA	R1095	VRS-CY1JF683JJ68k 1/16W Metal Oxide		AA	
R1039	VRS-CY1JF561JJ560 1/16W Metal Oxide			AA	R1096	VRS-CY1JF105JJ1M 1/16W Metal Oxide		AA	
R1040	VRS-CY1JF105JJ1M 1/16W Metal Oxide			AA	R1097	VRS-CY1JF183JJ18k 1/16W Metal Oxide		AA	
R1041	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1098	VRS-CY1JF683JJ68k 1/16W Metal Oxide		AA	
R1042	VRS-CY1JF562JJ5.6k 1/16W Metal Oxide			AA	R1099	VRS-CY1JF273JJ27k 1/16W Metal Oxide		AA	
R1045	VRS-CY1JF560JJ5.6k 1/16W Metal Oxide			AA	R1100	VRS-CY1JF472JJ4.7k 1/16W Metal Oxide		AA	
R1047	VRS-CY1JF221JJ220 1/16W Metal Oxide			AA	R1101	VRS-CY1JF472JJ4.7k 1/16W Metal Oxide		AA	
R1048	VRS-CY1JF681JJ680 1/16W Metal Oxide			AA	R1102	VRS-CY1JF563JJ56k 1/16W Metal Oxide		AA	
R1049	VRS-CY1JF560JJ5.6k 1/16W Metal Oxide			AA	R1103	VRS-CY1JF563JJ56k 1/16W Metal Oxide		AA	
R1050	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1104	VRS-CY1JF105JJ1M 1/16W Metal Oxide		AA	
R1051	VRS-CY1JF102JJ1k 1/16W Metal Oxide			AA	R1105	VRS-CY1JF103JJ10k 1/16W Metal Oxide		AA	
					R1106	VRS-CY1JF683JJ68k 1/16W Metal Oxide		AA	
					R1107	VRS-CY1JF105JJ1M 1/16W Metal Oxide		AA	
					R1108	VRS-CY1JF682JJ68k 1/16W Metal Oxide		AA	
					R1109	VRS-CY1JF683JJ68k 1/16W Metal Oxide		AA	
					R1110	VRS-CY1JF273JJ27k 1/16W Metal Oxide		AA	

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
DUNTK7782DE01 DIGITAL UNIT (Continued)					RDENC0057CEZZ POWER UNIT				
RESISTORS (Continued)					INTEGRATED CIRCUITS				
R1111	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA	△IC701	95KUCH0078ZZJ	M67209		AM
R1112	VRS-CY1JF472J	J	4.7k 1/16W Metal Oxide	AA		or			
R1114	VRS-TW2ED101J	J	100 1/4W Metal Oxide	AA		95KUCH0097ZZJ	ZHMA5194		AM
R1115	VRS-TW2ED101J	J	0 0 1/4W Metal Oxide	AA	IC702	95KUCB0095AZ	J PQ05RF11		AH
R1116	VRS-CY 1JF563J	J	56k 1/16W Metal Oxide	AA	IC703	95KUCZ0107ZZ	J μPC1093J		AF
R1117	VRS-CY1JF271J	J	270 1/16W Metal Oxide	A	IC704	95KUCB0031GZ	J MSF79M12		AG
R1119	See Controls								
R1120	VRS-CY1JF101J	J	100 1/16W Metal Oxide	AA					
R1121	VRS-CY 1JF472J	J	4.7k 1/16W Metal Oxide	AA					
R1122	VRS-CY1JF101J	J	0 0 1/16W Metal Oxide	AA					
SWITCH					TRANSISTORS				
S1001	QSW-K0098CEZZ	J	Adj. Process Switch	AC	△Q701	95KUAC0225JZ	J 25C4304-O,Y		AH
					△Q702	95KUAC0027CK	J 25C2655-Y (TPE6, C)		AD
					Q703	95KUAB0019BZ	J 25B1094-K		AG
					Q704	95KUAZ0004AK	J BA1F4M-T		AB
					Q705	95KUAD0056EZ	J 25D794-P		AF
					Q706	95KUAZ0008AK	J BN1F4M-T		AB
					Q707	95KUAB0019BZ	J 25B1094-K		AG
					Q708	95KUAZ0004AK	J BA1F4M-T		AB
					Q709	95KUAZ0014AK	J BA1A4M-T		AB
					Q710	95KUAZ0014AK	J BA1A4M-T		AB
					Q711	95KUAZ0014AK	J BA1 MM-T		AB
					Q712	95KUAC0152AK	J 25C2785-T		AB
					Q713	95KUAZ0014AK	J BA1A4M-T		AB
MISCELLANEOUS PARTS					DIODES				
F81001	RBLN-0065CEZZ	J	Ferrite Bead	AB	△DS701	95KUB80087DZ	J D5SB60		AR
F81002	RBLN-0065CEZZ	J	Ferrite Bead	AB	△D701	95KUBC0169DK	J ERA22-08V1		AD
F81003	RBLN-0065CEZZ	J	Ferrite Bead	AB	△D702	95KUBA0005KZ	J 1SS55-T4		AB
F81004	RBLN-0065CEZZ	J	Ferrite Bead	AB	△D703	95KUBC0221AK	J ERA18-02V1		AC
P1001	QPLGN064TAZZ	J	Plug 4-pin, (E8)	AC	△D704	95KUBA0005KZ	J 1SS55-T4		AB
P1002	QPLGN0764TAZZ	J	Plug 7-pin, (D5)	AD	△D705	95KUDA0033DL	J CR02AM-6-T8		AD
P1003	QPLGN0764TAZZ	J	Plug 7-pin, (DH)	AD	D706	95KUBC0174AB	J ERB93-02L3		AF
					D707	95KUBDAK220C	J Zener Diode, RD22ESAB2-T4		AB
					D709	95KUBC0188AK	J ERB91-02V1		AD
					D712	95KUBC0188AK	J ERB91-02V1		AD
					D713	95KUBDAK100C	J Zener Diode, RD10ESAB2-T4		AB
					D714	95KUBDAK100D	J Zener Diode, RD10ESAB3-T4		AB
					D716	95KUBC0188AK	J ERB91-02V1		AD
					△D716	95KUBA0005KZ	J 1SS55-T4		AB
					D718	95KUBA0005KZ	J 1SS55-T4		AB
					D719	95KUBA0004KZ	J 1SS53-T4		AB
					D720	95KUBA0004KZ	J 1SS53-T4		AB
					D721	95KUBA0004KZ	J 1SS53-T4		AB
					D722	95KUBDAK2R7C	J Zener Diode, RD27ESAB2-T4		AB
					D723	95KUBA0004KZ	J 1SS53-T4		AB
— End of DIGITAL UNIT —									

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
RDENC0057CEZZ POWER UNIT (Continued)					CAPACITORS (Continued)				
DIODES (Continued)					C728	95KUGAC101FDJ	100 16V Electrolytic	AC	
D724	95KUBC0174AB	J	ERB93-02L3	AF	c729	95KUGAB470KFJ	4 7 10V Electrolytic	AD	
△D725	95KUBA0004KZ	J	1SS53-T4	AB	C730	95KUGAB471FDJ	470 10V Electrolytic	AC	
△D726	95KUBA0004KZ	J	1SS53-T4	AB	C732	95KUGAD221FDJ	220 25V Electrolytic	AC	
D727	95KPZZ0603ZZ	J	IPS-3002-3	AA	c733	95KUGAD471PUJ	470 25V Electrolytic	AE	
					c734	95KUGAD101FDJ	100 25V Electrolytic	AC	
					△C735	95KUGFF473BQ	J 0.047 Film	AB	
PHOTO COUPLERS					RESISTORS				
△PC701	95KUDC0065LB	J	TLP634 (D4-GB-LF2) A	K	△R701	95KUEEC474BEJ	470k1/2W Carbon	AA	
△PC702	95KUDC0065LB	J	TLP634 (D4-GB-LF2)	AK		or			
						95KUEEC474ATJ	470k1/2W Carbon	AA	
COILS AND TRANSFORMER					△R703	95UEZ0259ZZ	J 3D-22	AP	
△L701	95K129025009	J	Choke Coil, N810	AQ	△R705	95KUEFE563AV	J 56k 2W Metal	AC	
△L702	95KUKZ0335ZZ	J	SE23T-10250	AP	△R706	95KUEFD393BHJ	39k 1W Metal	AB	
L703	95KUKZ0432ZZ	J	Choke Coil, LHL08T8220K	AE	△R707	95KUEFD393BHJ	39k 1W Metal	AB	
L704	95KUKZ0432ZZ	J	Choke Coil, LHL08T8220K	AE	△R708	95KUEFD393BHJ	39k 1W Metal	AB	
T701	95K129695018	J	TTrans., PTPP66	AY	△R709	95KUEEC8248EJ	820k1/2W Carbon	AA	
CONTROL						or			
R727	95KUFBA502CM	J	5k	AC		95KUEEC824ATJ	820k1/2W Carbon	AA	
					△R710	95KUEEC8248EJ	820k1/2W Carbon	AA	
CAPACITORS						or			
△C701	95KUGFZ224FEJ	0.22	Film	AF		95KUEEC824ATJ	820k1/2W Carbon	AA	
△C702	95KUGFZ223FEJ	0.022	Film	AE	△R711	95KUEEB1008EJ	10 1/4W Carbon	AA	
△C703	95KUGCQ222AQ	J 2200p	Ceramic	AC		or			
△C704	95KUGCQ222AQ	J 2200p	Ceramic	AC		95KUEEB1008FJ	10 1/4W Carbon	AA	
△C705	95KUGCZ102BV	J 1000p	Ceramic	AC	△R712	95KUEEB121BEJ	120 1/4W Carbon	AA	
△C706	95KUGBQ3318XJ	3 3 0 400V Block	AV			or			
△C708	95KUGFQ103FB	J 0.01 400V Film	AC			95KUEEB121BFJ	120 1/4W Carbon	AA	
△C709	95KUGFF103BQJ	0.01	Film	AB		or			
△C710	95KUGCF1028X	J 1000p	Ceramic	AA		95KUEEB1548FJ	150k1/4W Carbon	AA	
△C711	95KUGFF4738QJ	0.047	Film	AB	△R716	95KUEEB1538EJ	15k 1/4W Carbon	AA	
△C712	95KUGFF6838QJ	0.068	Film	AB		or			
△C713	95KUGAF010LX	J 1 50V Electrolytic	AC			95KUEEB1538FJ	15k 1/4W Carbon	AA	
△C714	95KUGCZ102BV	J 1000p	Ceramic	AC	△R717	95KUEEB5628EJ	5.6k 1/4W Carbon	AA	
C716	95KUGAD221FDJ	220 25V Electrolytic	AC			or			
C717	95KUGFF4738QJ	0.047	Film	AB		95KUEEB5628FJ	5.6k 1/4W Carbon	AA	
C718	95KUGAD471PUJ	470 25V Electrolytic	AE		△R718	95KUEEB5628EJ	5.6k 1/4W Carbon	AA	
C720	95KUGAD471PUJ	470 25V Electrolytic	AE			or			
C721	95KUGAD101FDJ	100 25V Electrolytic	AC			95KUEEB5628FJ	5.6k 1/4W Carbon	AA	
C722	95KUGCS102AB	J 1000p500V Ceramic	A B		△R719	95KUEEB5628EJ	5.6k 1/4W Carbon	AA	
C723	95KUGAE101JGJ	100 35V Electrolytic	AC			or			
C724	95KUGAE101JGJ	100 35V Electrolytic	AC			95KUEEB5628FJ	5.6k 1/4W Carbon	AA	
C725	95KUGAC470FDJ	4 7 16V Electrolytic	AB		R720	95KUEEB1028EJ	1k 1/4W Carbon	AA	
C727	95KUGAD471PUJ	470 25V Electrolytic	AE			or			
						95KUEEB1028FJ	1k 1/4W Carbon	AA	

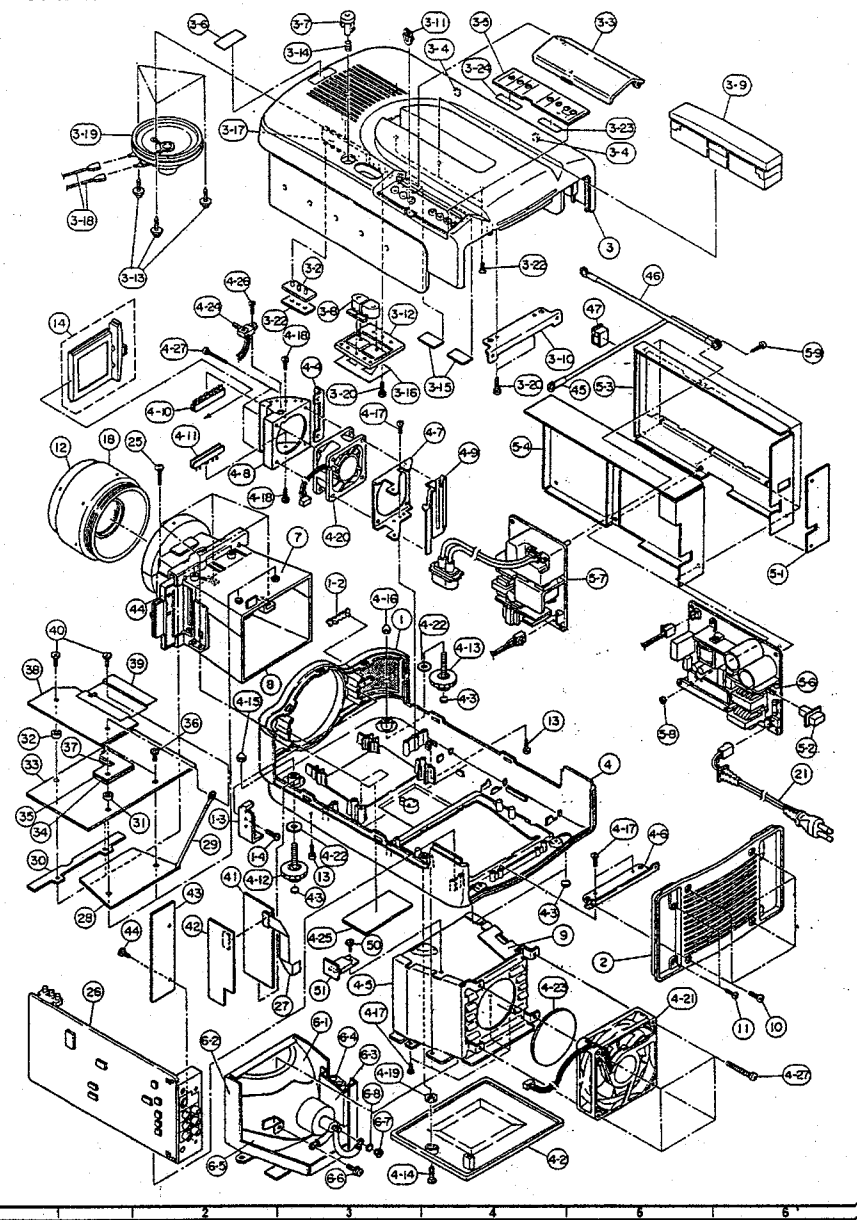
Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
RDENC0057CEZZ POWER UNIT (Continued)					RESISTORS (Continued)				
RESISTORS (Continued)					R750	95KUEEB562BEJ 5.6k 1/4W Carbon		AA	
R721	95KUEEB102BEJ 1k 1/4W Carbon		AA			or			
	95KUEEB102BFJ 1k 1/4W Carbon		AA		R752	95KUEEB332BEJ 3.3k 1/4W Carbon		AA	
R726	95KUEEB183BEJ 18k 1/4W Carbon		AA			or			
	95KUEEB183BFJ 18k 1/4W Carbon		AA		R753	95KUEEB332BE J 3.3k 1/4W Carbon		AA	
R727	See Controls					or			
R728	95KUEEB472BEJ 4.7k 1/4W Carbon		AA		R754	95KUEEB332BFJ 3.3k 1/4W Carbon		AA	
	95KUEEB472BFJ 4.7k 1/4W Carbon		AA			or			
R729	95KUEEB102BEJ 1k 1/4W Carbon		AA		R755	95KUEEB182BEJ 1.8k 1/4W Carbon		AA	
	95KUEEB102BFJ 1k 1/4W Carbon		AA			or			
R730	95KUEEB221BEJ 220 1/4W Carbon		AA		R757	95KUEEB102BFJ 1k 1/4W Carbon		AA	
	95KUEEB221BFJ 220 1/4W Carbon		AA			or			
R735	95KUEEB102BEJ 1k 1/4W Carbon		AA		R758	95KUEEB332BFJ 3.3k 1/4W Carbon		AA	
	95KUEEB102BFJ 1k 1/4W Carbon		AA			or			
R736	95KUEEB102BEJ 1k 1/4W Carbon		AA		△ R759	95KUEEB102BEJ 1k 1/4W Carbon		AA	
	95KUEEB102BFJ 1k 1/4W Carbon		AA			or			
R737	95KUEEBR27AMJ 0.27 1/4W Fuse Resistor A C				△ R760	95KUEEB151BEJ 150 1/4W Carbon		AA	
R738	95KUEEB182BEJ 1.8k 1/4W Carbon		AA			or			
	95KUEEB182BFJ 1.8k 1/4W Carbon		AA		R761	95KUEEB151BFJ 150 1/4W Carbon		AA	
R739	95KUEEB102BEJ 1k 1/4W Carbon		AA			or			
	95KUEEB102BFJ 1k 1/4W Carbon		AA		R762	95KUEEB102BFJ 1k 1/4W Carbon		AA	
R740	95KUEEB102BEJ 1k 1/4W Carbon		AA			95KUEEBR10ANJ 0.15 Fuse Resistor AC			
	95KUEEB102BFJ 1k 1/4W Carbon		AA						
R741	95KUEEC151BE J 150 1/2W Carbon		AA		RELAY AND SWITCH				
	95KUEEC151ATJ 150 1/2W Carbon		AA		△ RY701	95KPHZ0096ZZ J Power Relay, DG12D1-0(M)		AL	
R742	95KUEEC151BE J 150 1/2W Carbon		AA		△ SW701	QSW-P0566CEZZ J Power Switch, PZ0226ZZ A L			
	95KUEEC151ATJ 150 1/2W Carbon		AA						
R744	95KUEEB332BEJ 3.3k 1/4W Carbon		AA		MISCELLANEOUS PARTS				
	95KUEEB332BFJ 3.3k 1/4W Carbon		AA		△ F701	95KPICTG5001 J Fuse, T5AH, 250V		AG	
R747	95KUEEB332BEJ 3.3k 1/4W Carbon		AA		△ F702	95KPICT0134ZZ J Thermal Cut-off, H125A A D			
	95KUEEB332BFJ 3.3k 1/4W Carbon		AA		FH701	95KPKZ0625ZZ J Fuse Holder		AD	
R748	95KUEEB332BEJ 3.3k 1/4W Carbon		AA		CN1A	95KPKZ1057ZZ J Connector 5-pin		AC	
	95KUEEB332BFJ 3.3k 1/4W Carbon		AA		CN1B	95KPKZ0086ZZ J Connector 5-pin		AC	
R749	95KUEEB332BEJ 3.3k 1/4W Carbon		AA		CN2A	95KPKZ2525ZZ J Connector 7-pin		AC	
	95KUEEB332BFJ 3.3k 1/4W Carbon		AA		CN2B	95KPEZ0047ZZ J Connector 7-pin		AD	
	95KUEEB332BEJ 3.3k 1/4W Carbon		AA		EB	95KPKZ0527ZZ J Connector 7-pin		AB	
	95KUEEB332BFJ 3.3k 1/4W Carbon		AA		EC	95KPKZ0527ZZ J Connector 7-pin		AB	
	95KUEEB332BEJ 3.3k 1/4W Carbon		AA		PT	95KPKZ0194ZZ J Connector 2-pin		AC	
	95KUEEB332BFJ 3.3k 1/4W Carbon		AA						
					— End of POWER UNIT —				

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
RDENC0058CEZZ BALLAST UNIT					COILS AND TRANSFORMERS				
INTEGRATED CIRCUITS					△ L1701	95KUKZ0344ZZ J Choke Coil, SN5-400		AH	
IC1701	95KUCZ0154ZZ J STR-D100ST		AP		L1703	95K12969501 2 J Choke Coil, CHT056		AS	
△ IC1702	95KUCH0100ZZ J M67170-03		BC		T1701	95K12961501 8 J Transformer		AQ	
					△ T1702	95K12969501 3 J Transformer		AW	
					△ T1704	95K12969501 6 J Transformer		AW	
					△ T1705	95K748695002 J Transformer		BK	
TRANSISTORS					CONTROL				
△ Q1701	95KUAG0062AZ J 25K1180		AS		VR1701	95KUFBA203CDJ 20k(B)		AC	
	41703 95KUAC0240CZ J 25C4297		AN						
	41704 95KUAC0240CZ J 25C4297		AN						
	Q1705 95KUAC0240CZ J 25C4297		AN						
	Q1706 95KUAC0240CZ J 25C4297		AN						
	41707 95KUAC0232AZ J 25C3631		AF						
	Q1708 95KUAG0048AZ J 25K1142		AM						
DIODES					CAPACITORS				
D1703	95KUBC0248AK J 05NU42 TPA2		AC		C1709	95KUGCU221AMJ 220p 1kV Ceramic		AC	
D1704	95KUBB0191AZ J FMG-G365		AM		C1710	95KUGFQ474CUJ 0.47 400V Film		AF	
D1706	95KUBC0070AL J ERA81-004V1		AD		C1712	95KUGZ0805ZZ J 3300p 500V Ceramic		AB	
01707	95KUBC0070AL J ERA81-004V1		AD		C1713	95KUGAD101HPJ 100 25V Electrolytic		AD	
01708	95KUBC0204AZ J RU2YX		AD		C1714	95KUGAD101HPJ 100 25V Electrolytic		AD	
D1709	95KUBC0165BK J ERA38-05V1		AD		C1715	95KUGAF221EVJ 220 50V Electrolytic		AD	
01710	95KUBC0078DK J ERB44-06V1		AC		C1716	95KUGCU222BAJ 2200p Ceramic		AC	
D1711	95KUBC0078DK J ERB44-06V1		AC		C1717	95KUGAD101HPJ 100 25V Electrolytic		AD	
D1712	95KUBC0078DK J ERB44-06V1		AC		C1718	95KUGZ0798ZZJ 10 25V Electrolytic		AC	
D1713	95KUBC0078DK J ERB44-06V1		AC		C1719	95KUGZ0800ZZJ 10 50V Electrolytic		AC	
D1717	95KUBC0078DK J ERB44-06V1		AC		C1720	95KUGZ0799ZZJ 1 50V Electrolytic		AC	
D1751	95KUBC0187AK J ERA91-02V1		AD		C1721	95KUGFQ474CUJ 0.47 400V Film		AF	
D1752	95KUBC0187AK J ERA91-02V1		AD		△ C1724	95KUGFQ474CUJ 0.47 400V Film		A F	
D1753	95KUBC0187AK J ERA91-02V1		AD		C1751	95KUGFQ333DUJ 3300p 400V Film		AC	
D1754	95KUBC0187AK J ERA91-02V1		AD		C1752	95KUGFQ333DUJ 3300p 400V Film		AC	
ZD1701	95KUBDAK160C J Zener Diode, RD16ESAB2-T4		AC		C1753	95KUGFQ333DUJ 3300p 400V Film		AC	
					C1754	95KUGFQ333DUJ 3300p 400V Film		AC	
ZD1702	95KUBDAK120C J Zener Diode, RD12ESAB2-T4		AB		C1755	95KUGF222BQJ 2200p 50V Film		AB	
					C1756	95KUGZ0799ZZJ 1 50V Electrolytic		AC	
ZD1703	95KUBDAK200C J Zener Diode, RD20ESAB2-T4		AB		C1757	95KUGCF102BXJ 1000p Ceramic		AA	
					C1758	95KUGCZ221ABJ 220p 1kV Ceramic		AB	
					C1759	95KUGFF103BQJ 0.01 Film		AB	
					C1760	95KUGCF102BXJ 1000p Ceramic		AA	
					SK1701	95KUGZ0805ZZJ 3300p 500V Ceramic		A B	
PHOTO COUPLER									
△ PC1701	95KUDC0065LZ J Photo Coupler, TLP634 (D4-GB)		AK						

Ref. No.	Part No.	*	Description	Code	Ref. No.*	Part No.	Description	Code
RDENC0058CEZZ					MISCELLANEOUS PARTS			
BALLAST UNIT (Continued)					CN1	95KPKZ052ZZZ J	Connector 2-pin	A8
					△F1701	95KPICB31001 J	Protector, 1A, 125V A	E
					△F1702	95KPIJT0136ZZ J	Thermal Cut-off, 2A, 250V, 136°C	AE
RESISTORS					FB1701	95KBFZ89250Z J	Ferrite Bead	A8
R1702	95KUEZ0449ZZJ	820 1W Metal	AB		FB1702	95KBFZ89250Z J	Ferrite Bead	AB
R1703	95KUEFER338JJ	0.33 1W Metal	AC		FB1703	95KBFZ89250Z J	Ferrite Bead	AB
R1704	95KUEFD683BHJ	68k 1W Metal	AB		FB1704	95KBFZ89250Z J	Ferrite Bead	A8
R1705	95KUEFD151BHJ	150 1W Metal	AB		PL	95KPKZ0194ZZ J	Connector 2-pin	AC
R1706	95KUEFC220AVJ	22 1/2W Metal	A8					
R1707	95KUEFD330BHJ	33 1W Metal	AB					
R1708	95KUEFD2R7BH J	2.7 1W Metal	A8					
R1709	95KUEEB330BEJ	33 Carbon	AA					
	or							
	95KUEEB330BFJ	33 Carbon	AA					
R1710	95KUEFD2R7BHJ	2.7 1W Metal	AB					
R1711	95KUEEB330BEJ	33 Carbon	AA					
	or							
	95KUEEB330BFJ	33 Carbon	AA					
R1712	95KUEEB330BEJ	33 Carbon	AA					
	or							
	95KUEEB330BFJ	33 Carbon	AA					
R1713	95KUEFD2R7BHJ	2.7 1W Metal	AB					
R1714	95KUEFE332AW J	33k 2W Metal	A8					
R1715	95KUEEB330BE J	33 Carbon	AA					
	or							
	95KUEEB330BF J	33 Carbon	AA					
R1716	95KUEFD2R7BH J	2.7 1W Metal	AB					
R1717	95KUEGGR15AT J	0.15 5W Cement	AE					
R1718	95KUEFD2R2BHJ	2.2 1W Metal	A8					
R1719	95KUEFD2R2BHJ	2.2 1W Metal	AB					
R1720	95KUEFE332AW J	33k 2W Metal	AB					
R1721	95KUEEC4R7BEJ	4.7 1/2W Carbon	A8					
	or							
	95KUEEC4R7AMJ	4.7 1/2W Carbon	AA					
R1723	95KUEEC1218EJ	120 1/2W Carbon	AA					
	or							
	95KUEEC121AMJ	120 1/2W Carbon	AA					
	or							
	95KUEEC121ATJ	120 1/2W Carbon	AA					
R1724	95KUEEB1028EJ	1k 1/4W Carbon	AA					
	or							
	95KUEEB102BFJ	1k 1/4W Carbon	AA					
R1725	95KUEEB1028EJ	1k 1/4W Carbon	AA					
	or							
	95KUEEB1028FJ	1k 1/4W Carbon	AA					
△R1726	95KUEBBR39AM J	0.39 1/4W Fuse Resistor A	C					
△R1727	95KUEBBR39AM J	0.39 1/4W Fuse Resistor A	C					

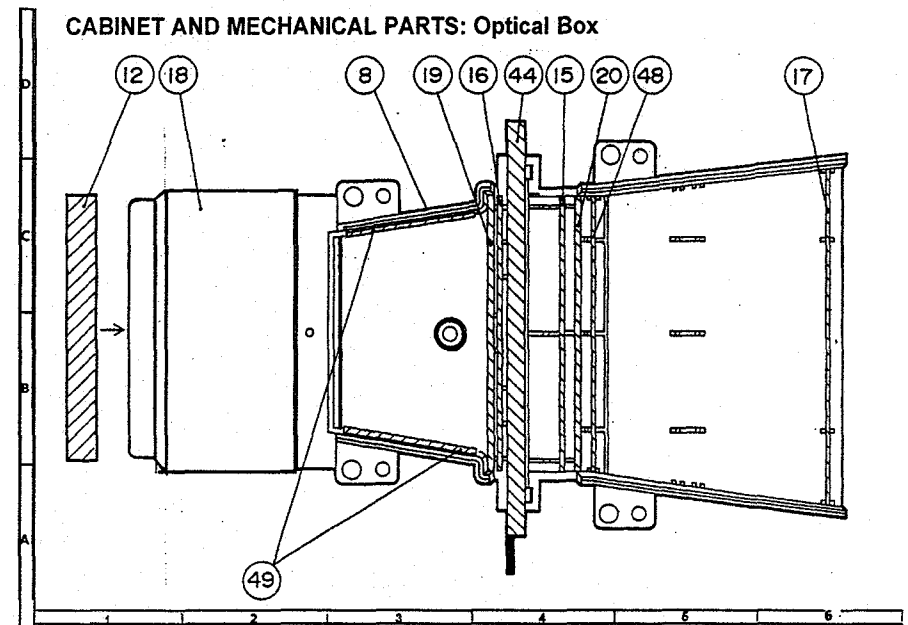
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CABINET AND MECHANICAL PARTS



Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
CABINET AND MECHANICAL PARTS					4-14	LX-BZ3274CESA	J	Screw, fix Lamp Case	AE
1	CBDYF1034CE01	J	Front Body Ass'y	AT	4-16	LX-NZ3095CEFD	J	Nut-R	AA
1-1	Not Available	-	Front Body	—	4-16	LX-NZ3123CEFE	J	Nut-L	AB
1-2	HBDGB1007GESB	J	Badge "SHARP"	AD	4-17	XEBSD30P10000J	J	Screw	AA
1-3	LANGT9973CEFW	J	Angle, fix Front/Bottom Body	AD	4-18	XEPSF30P06000J	J	Screw	AA
1-4	XEBSD30P12000J	J	Screw	AA	4-19	XRESJ30-06000J	E	Ring	AA
2	GBDYR1017CESA	J	Rear Body	AM	4-20	NFANR0039CE00J	F	Fan-A	AY
3	CBDYT101 1CE01	J	Top Body Ass'y	BG	4-21	NFANR0040CE00J	F	Fan-B	Ax
3-1	Not Available	-	Top Body	—	4-22	PSPAH0393CE00J	J	Spacer	AA
3-2	GCOVA1440CEZZ	J	LED Cover	AC	4-23	PZETK0006CEZZJ	J	Shielding Plate	AD
3-3	GDORT1065CEKA	J	Door, Top side	AH	4-24	QCNW-3329CEZZ	J	Wire, Leaf Switch	AM
3-4	GLEGG9025CESB	J	Leg Rubber	A8	4-25	TLABM3434CEZZJ	J	Model Label	AQ
3-5	HINDP4151CESA	J	Indication Plate, in Door	A F	4-26	XBPSF26P06000J	J	Screw	AA
3-6	HINDP4201CESA	J	Indication Plate, Note	A8	4-27	XBPSF40P30000	J	Screw, fix Fan	AA
3-7	JB TN-1768CESA	J	Button, Power	AE	6	Not Available	-	Power/Ballast Unit Ass'y	—
3-8	JB TN-1779CESA	J	Button, Vol-Up/Down	AE	5-1	HINDP4111CESA	J	Indication Plate	AC
3-9	JHNDA1023CESA	J	Handle	AW	5-2	JKNBP1065CESB	J	Button	AC
3-10	LANGT2051CEFW	J	Angle	AD	5-3	LANGQ9132CEFW	J	Angle	AP
3-11	LHLD51010GEZZ	J	Door Catch	AA	5-4	PZETV0562CEZZ	J	Shielding Plate	AT
3-12	LHLDZ1701CEZZ	J	Button, Holder	AC	5-5	QCNW-3419CEZZ	J	Wire	AC
3-13	LX-HZ3066CEFF	J	Screw, Speaker	AA	5-6	Not Available	-	Power Unit	—
3-14	MSPRC0148CEFW	J	Spring, Power Button	AA	5-7	Not Available	-	Ballast Unit	—
3-15	PCOVH1028CEZZ	J	Light Shielding Cover	AA	5-8	XNESD30-24000J	J	Nut	AA
3-16	PCOVZ1007CEZZ	J	Light Shielding Cover, for Button	AC	5-9	XTASD30P12000J	J	Screw	AA
3-17	PMLT-0178CE00J	M	oltiprene	AB	6	BQC-XV310P/11	J	Lamp Unit	CD
3-18	QCNW-3465CEZZ	J	Connecting Wire, Speaker	AE	6-1	RLMPF0012CEZZJ	J	Lamp	CD
3-19	VSP0080P-G7WAJ	J	Speaker	AP	6-2	LANGT9948CEFW	J	Case	AS
3-20	XEBSD30P10000J	J	Screw	AA	6-3	LANGH0104CEFW	J	Light Shielding Cover	A C
3-21	XESSF30P10000	J	Screw, fix Handle	AA	6-4	QPLGN0295CEZZJ	J	Plug	AR
3-22	PCOVU1029CEZZ	J	LED Light Shielding Cover	AC	6-5	MSPRB0015CEFW	J	Spring	AF
3-23	PSPAH0421CEZZ	J	Himelon	AB	6-6	LX-BZ3270CEFNJ	J	Screw	AA
3-24	PSPAH0422CEZZ	J	Himelon	AB	6-7	LX-NZ3108CEFNJ	J	Nut	AA
4	CBDYU101 1CE02	J	Bottom Body Ass'y	BN	6-8	LX-WZ31 02CEFNJ	J	Washer	AA
4-1	Not Available	-	Bottom Body	—	7	GBOXZ1007CEZZ	J	Optical Box, Top	AR
4-2	GDORU1002CESA	J	Door, Bottom Side	AH	8	GBOXZ1008CEZZ	J	Optical Box, Bottom	A T
4-3	GLEGG9027CESB	J	Leg, Rubber	AB	9	LANGH0103CEFW	J	Light Shielding Plate	A C
4-4	LANGF9433CEFW	J	Guide Angle	AC	10	LX-BZ3279CESA	J	Deco. Screw-A	AA
4-5	LANGQ9131CEFW	J	Tape Guide Angle	AQ	11	LX-HZ3067CESA	J	Deco. Screw-B	A A
4-6	LANGT2051CEFW	J	Angle	AD	12	PCAPH1013CEZZ	J	Lens Cap	At
4-7	LANGT9952CEFW	J	Angle, Fan	A E	13	XTPSD30P16000J	J	Screw	AA
4-8	LANGT9992CEFW	J	Duct Angle	AE	14	PFILD0018CEZZJ	J	Filter	AM
4-9	LHLDZ1698CEZZ	J	Duct Holder	A C	14	PFILD0022CEZZJ	J	Filter	AM
4-10	LHLDZ9118CEZZJ	J	Rail Holder-Top	AC				(up to September 1992)	
4-11	LHLDZ9119CEZZJ	J	Rail Holder-Bottom	AC				(October 1992~)	
4-12	LX-BZ1 003CESA	J	Adjuster-R	AC	15	PFILW0041CE01J	J	Filter, in H (with Glass)	A Y
4-13	LX-BZ1 004CESA	J	Adjuster-L	AE	16	PFILW0042CE01J	J	Filter, Out H (with Glass)	A Y
					17	PFILW0054CEZZ	J	UVIR Cut Filter	BN
					18	PLNS-0032CESA	J	Projection Lens	BR
					19	PLNS-0033CEZZ	J	Furenel Lens	AT
					20	PLNS-0037CEZZJ	J	Lens	AQ
					21	QACCV2009CESA	J	ACCord	AN
					22	XEBSD30P08000J	J	Screw	AA

Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
CABINET AND MECHANICAL PARTS					38	PRDAR1458CEFW	J	Radiator Panel-B	
(Continued)					39	PSLDM4080CEZZJ	J	Shield Panel-B	
23	XEBSD30P12000J	J	Screw	AA	40	XEBSD30P16000J	J	Screw	AA
24	XEBSD30P16000J	J	Screw	AA	41	Not Available	-	Sub Unit	—
25	XTASD40P16000J	J	Screw	AA	42	PCOVV1059CE00	J	Wire Cover	
26	Not Available	-	Main Unit	—	43	PSPAV01 26CEZZ	J	Light Shielding Plate	AB
27	QCNW-3434CEZZJ	J	Panel Wire	AF	44	RUNTK0353CEZZ	J	LCD Module	**
28	PSLDM4079CEZZ	J	Shield Panel-A	AA	45	QCNW-3457CEZZ	J	Wire	
29	QCNW-3446CEZZ	J	Shield Wire	AB	46	QCNW-3419CEZZ	J	Wire	AC
30	PZETV0567CEZZ	J	Airflow Vane	AC	47	LHLDW1173CEZZJ	J	Wire Holder	AD
31	PSPAB0022CEFWJ	J	Spacer-A	AC	48	PGLS-0006CEZZ	J	Glass	
32	PSPAB0023CEFWJ	J	Spacer-B	AC	49	PCOVU1031CEZZ	J	Light Shielding Plate	
33	Not Available	-	Digital Unit	—	50	LX-BZ3220CEFDJ	J	Screw	AA
34	PRDAR1457CEFWJ	J	Radiator Panel-Top		51	Not Available	-	Bimetal Unit	—
35	PRDAR1456CEFW	J	Radiator Panel-Bottom						
36	XEBSD30P08000J	J	Screw	AA					
37	PGUMS0008CEZZJ	J	Plate, Rubber						
					— End of CABINET AND MECHANICAL PARTS —				



Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	*	Description	Code
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PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC4462CEZZ	- Packing Case	—
SPAKX2373CEZZ	- Buffer Material (Top and Bottom)	—
TLABK0001TAZZ	- Number Card	—
TLABN0029CEZZ	- Serial Number Label	—

— End of PACKING PARTS —

SUPPLIED ACCESSORIES

ACCESSORIES

12	PCAPH1013CESA	J	Lens Cap (installed)	AG
14	PFILD0018CEZZ	J	Filter (installed) (up to September 1992)	AM
14	PFILD0022CEZZ	J	Filter (installed) (October 1992~)	AM

ACCESSORIES (NOT REPLACEMENT ITEM)

TINS-4969CEZZ	- Operation Manual	—
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— End of ACCESSORIES —

PACKING OF THE SET / VERPACKEN DES GERÄTS

